TAILOR MADE
COMPOSITE MATERIALS

Tailor made composite materials

Leader in the production and distribution of advanced composite raw materials, Angeloni Group has been active since 1927 and its main activity is the production of fabrics, multiaxial and prepreg with high tech yarns, in particular with carbon fibre.

Italian soul since 1927

5 operation plants in Italy

3 sites in Venice Area

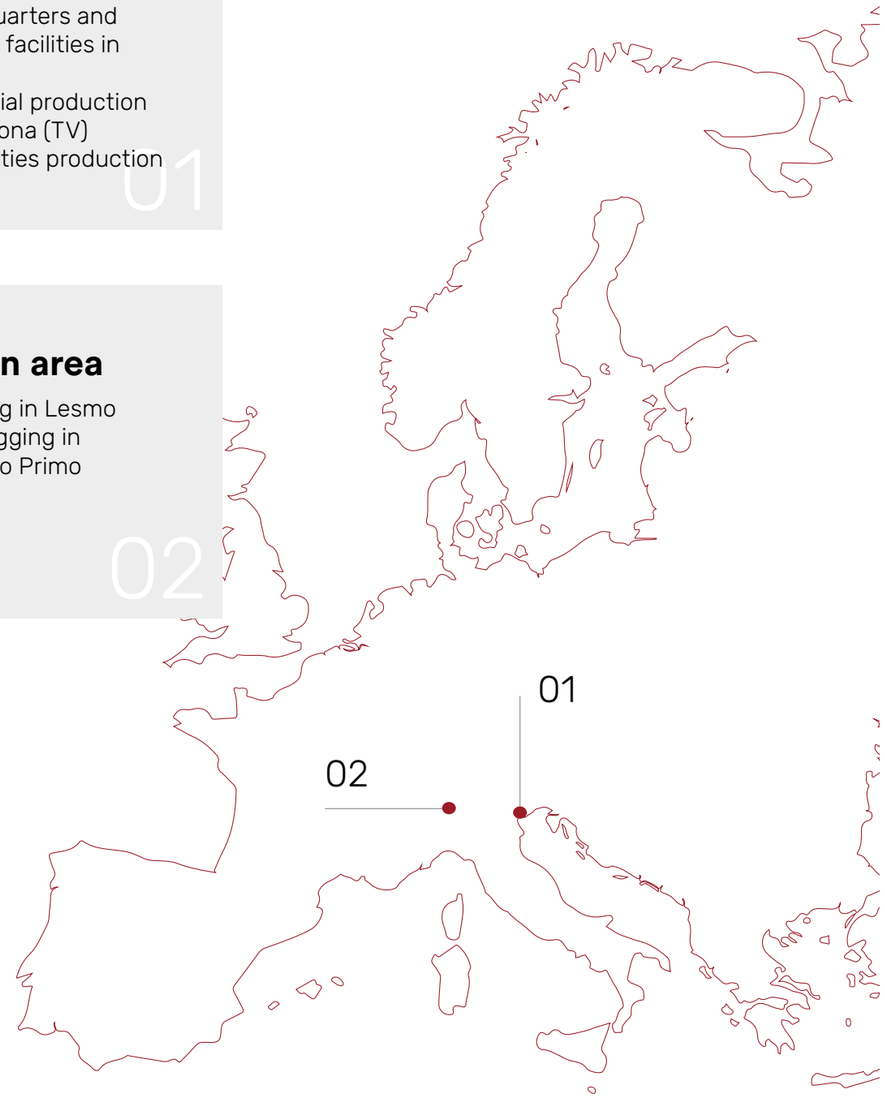
- → Headquarters and logistic facilities in Venice
- → Multiaxial production in Fregona (TV)
- → Specialties production

01

2 sites in Milan area

- → Weaving in Lesmo
- → Prepregging in Castano Primo

02



For almost 100 years leader in the sector of composite materials

Angeloni was founded in 1927 as a commercial activity for painting materials; over the years it has developed new sectors always being cutting-edge in the research, production and distribution of new materials.

Today Angeloni Group is a leader on advanced composite materials thanks to an amazing experience during 90 years of passionate presence.

Italian soul and international vision

1927	Trading and retail activity for paints in Venice
1970	Composites materials wholesale activity
1998	Backsourcing of textile production with creation of ITT plant (MI)
2002	Start of prepreg production with Impregnatex
2007	New plant for UD patent Dynanotex, tapes production and fabric stabilization treatments
2020	Acquisition by FCG, creation of Angeloni Group
2022	Acquisition of Selcom (multiaxial NCF production)
2023	Part of Michelin Group

A wide range of products, a constant attention to quality and service, to enable companies to realize their vision of performance.

01 — Prepreg Systems

02 — Woven Fabrics Reinforcements

03 — Multiaxials NCF

04 — Rubber improvers

05 — Vacuum Products

06 — Core Materials

Table of Contents

Prepreg System

01 —

Under the brand IMPREGNATEX we are supplying a full range of prepregged fabrics to satisfy all the different requests for autoclave use, compression moulding or wrapping: from tooling systems, fast curing systems down to medium temperature and high temperature transparent resins. We have flame retardant systems, toughened structural systems, Out of autoclave systems and films for surface finishing and bonding.

IMPREGNATEX
ANGELONI GROUP

Prepreg Systems

Impregnatex Resins

NAME	TYPE	OUT-LIFE @ 23 °C	SHELF-LIFE @ -18 °C	TACK	CURING PROCESS	PRE-CURE AND/OR CURE T	TIME	PRES-SURE	POST CURE T	TIME		DSC-Tg (ASTM D3418) after curing	DSC-Tg (ASTM D3418) after post curing	DMA-Tg (ASTM D7028) after curing		DMA-Tg (ASTM D7028) after post curing		APPLICATION	COLOUR	TOUGHENED
		wk	months			°C	h	bar	°C	h		°C	°C	E' Onset °C	tanδ peak °C	E' Onset °C	tanδ peak °C			
IMP 299 E	Epoxy	4	12	L-M	Autoclave	125	3	6	-	-		90 - 100	-	105 - 115	125 - 135	-		Industrial, transport and automotive where fire resistance is required. UL94 V-0 compliant.	Transparent	Slightly toughened
IMP 372	Epoxy	6	12	M	Autoclave	135	1,5	2 - 7	-	-		125 - 130	-	-	-	-	-	Surface film. Available at 200 or 320 g/m² aerial weights	S = Dark Grey C = Light Grey	No
						140	2		-	-		130 - 135	-	-	-	-	-			
IMP 380 F	Epoxy	4	12	M - H	Auto-clave/ OoA	80	16	2 - 4	120 - 130	2		85 - 95	115 - 125	-	-	-	-	Adhesive film to bond prepregs to cores. Available at 150 or 250 g/m²	Black	Yes
						90	9		120 - 130	2		95 - 105				-	-			
						100	5		120 - 130	2		105 -115				-	-			
						120	1		-	-		115 - 125				-	-			
IMP 402	Epoxy	6	15	H	Autoclave	135	1,5	6	-	-		110	-	110-120	130-140	-		Automotive, industrial and sporting goods with high-impact performance and energy absorption.	Black pigmented resin	Yes
IMP 503 Z	Epoxy	5	12	M - H	Autoclave	120	2	6	-	-		90 - 100		105 - 110	125 - 135	-	-	Medium temperature curing for aesthetic applications for automotive, industrial, sporting goods, marine	Transparent, for high aesthetic requirements	Yes
						130	1,5	6	-	-		90 - 100		105 - 110	125 - 135	-	-			
IMP 503 Z-HT	Epoxy	4	12	M	Autoclave	120	1,5	6	-	-		95 - 105		110 - 115	130 - 135	-	-	Increased Tg version of IMP 503 Z.	Transparent, for high aesthetic requirements	Yes
						135	1,5	6	-	-		100 - 110		115 - 120	135 - 140	-	-			
						140	2	6	-	-		105 - 115		120 - 125	140 - 145	-	-			
IMP 503 Z-HT BC	Epoxy	4	12	M - H	Autoclave	80 °C dwell + 130 °C cure	45 + 45	6*	-	-		-	-	120 - 125	140 - 145	-	-	Renewable resource - FLAX reinforcement	Transparent	Yes
IMP 504 Z	Epoxy	3	12	L	Hot press moulding	150	8 min	-	-	-		-	-	n.a.	n.a.	-	-	Medium temperature or fast curing for automotive, industrial, sporting goods; especially suitable for hot moulding press, UV resistance improved	Transparent, for high aesthetic features requirement	Yes
						145	10 min	-	-	-		-	-	n.a.	n.a.	-	-			
						140	15 min	-	-	-		-	-	n.a.	n.a.	-	-			
					Autoclave	70	16	6	-	-		105 - 110	-	90 - 95	110 - 115	-	-			
						100	4	6	-	-		110 - 115	-	95 - 100	115 - 120	-	-			
						120	1,5	6	-	-		115-125	-	110 - 120	130 - 140	-	-			
						130	1,5	6	-	-		115-125	-	120 - 130	140 - 150	-	-			

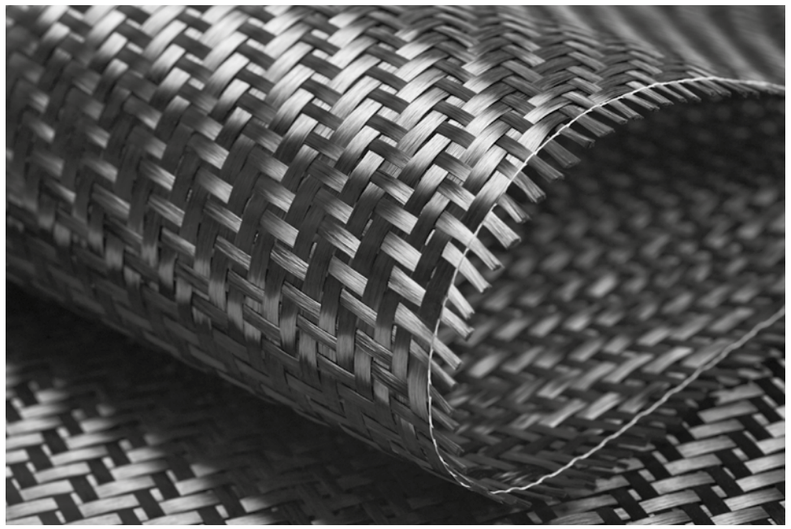
NAME	TYPE	OUT-LIFE @ 23 °C	SHELF-LIFE @ -18 °C	TACK	CURING PROCESS	PRE-CURE AND/OR CURE T	TIME	PRES-SURE	POST CURE T	TIME		DSC-Tg (ASTM D3418) after curing	DSC-Tg (ASTM D3418) after post	DMA-Tg (ASTM D7028) after curing		DMA-Tg (ASTM D7028) after post curing		APPLICATION	COLOUR	TOUGHENED
		wk	months			°C	h	bar	°C	h		°C	°C	E' On-set °C	tan 6 peak °C	E' On-set °C	tan 6 peak °C			
IMP 505 L	Epoxy	4	12	M	Auto-clave/ Hot press moulding	80	13	6	150	1		95 - 105	-	80 - 85	100 - 105	135 -140	155 - 160	Medium temperature or fast curing for marine, industrial, sporting goods, automotive	Transparent	Yes
						90	5	6	150	1		100 - 110	-	90 - 95	110 - 115					
						120	1	6	150	1		115 - 125	-	100 - 110	120 - 130					
						135	1,5	6	-	-		120 - 130	-	125 - 135	145 - 155					
IMP 509	Epoxy	4	12	M	Hot press moulding	130	20 min	-	-	-		-	-	n.a.	n.a.	-	-	Automotive, industrial, sporting goods with medium high service temperature requirements with high aesthetic performances	Transparent, for high aesthetic features requirement	Yes
						140	15 min	-	-	-		-	-	n.a.	n.a.	-	-			
						150	10 min	-	-	-		-	-	n.a.	n.a.	-	-			
						160	5 min	-	-	-		-	-	n.a.	n.a.	-	-			
					Autoclave	120	2	6	-	-		135 - 140	-	135 - 140	155 - 160	-	-			
						135	1,5	6	-	-		140 -145	-	140 - 145	160 -165	-	-			
						140	1	6	-	-		140 - 145	-	140 - 145	160 - 165	-	-			
IMP 509 - HT	Epoxy	5	15	M-H	Autoclave	135	1,5	6	-	-		150 - 160	-	160 - 170	180 - 190	-		Automotive, industrial, sporting goods with high service temperature requirements with high aesthetic performances	Transparent, for high aesthetic features requirement	No
IMP 563	Epoxy	3	12	L - M	Autoclave	80	16	6	190	1		125 - 130	-	100 - 105	130 - 140	165 - 170	195 - 200	Automotive, industrial, etc. Where high working temperature is required. CARBON PACK compound combined with IMP 503 Z and IMP 503 Z-HT.	Transparent	Yes
						90	8	6				130 - 135	-	105 - 110	135 - 145					
						100	4	6				160 - 165	-	125 - 130	165 - 175					
						120	1	6				165 - 170	-	135 - 140	170 - 190					
IMP SCL 01	Epoxy	5	12	L - M	OoA/Au-toclave	80	12	0 - 6	-	-		105 - 110	-	90 - 95	110 - 115	-	-	OoA applications for first layer. To be combined with additional layers with IMP 505 L, IMP 503 Z, IMP503Z-HT, IMP620.	Transparent	Yes
						240 min @ 80 °C + 60 min @ 135 °C		0 - 6	-	-		115 - 120	-	95 - 100	115 - 120	-	-			
IMP 620	Epoxy	2	12	M	Autoclave	65	16	6	-	-		80 - 85	-	70 - 75	90 - 95	-	-	Variable temperature curing or fast curing for marine, industrial, sporting goods, automotive applications.	Transparent	Yes
						80	8		-	-		90 - 95	-	75 - 80	95 - 100	-	-			
						100	1		-	-		100 - 105	-	85 - 90	105 - 110	-	-			
						120	45 min		-	-		105 - 110	-	100 - 105	120 - 125	-	-			
IMP 762 BD	Epoxy	3 - 4 days	6	M - H	Autoclave	50	24	6	160	4		n.a.	n.a.	70 - 75	85 - 95	165 - 190	185 - 210	Low temperature curing for tooling applications.	Orange to brownish coloured	No
						55	16					n.a.	n.a.	75 - 80	90 - 100					
						60	10					n.a.	n.a.	80 - 85	90 - 100					
IMP 911	Phenol-ic	12	24	L	Hot press moulding	165	15 - 20 min	10	-	-		n.a.	-	n.a.	n.a.	-	-	Ballistic applications	Transparent or black couloured	n.a.

NAME	TYPE	OUT-LIFE @ 23 °C	SHELF-LIFE @ -18 °C	TACK	CURING PROCESS	PRE-CURE AND/OR CURE T	TIME	PRES-SURE	POST CURE T	TIME		DSC-Tg (ASTM D3418) after curing	DSC-Tg (ASTM D3418) after post	DMA-Tg (ASTM D7028) after curing		DMA-Tg (ASTM D7028) after post curing		APPLICATION	COLOUR	TOUGHENED
		wk	months			°C	h	bar	°C	h		°C	°C	E' On-set °C	tan δ peak °C	E' On-set °C	tan δ peak °C			
IMP TF 01	Epoxy	24 months	-	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.		n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	Pray pump dispenser or Spray can IMP TF01 tackyfier to be used to improve prepreg adhesion on the mould.	Transparent	n.a.
IMP AS 01	Epoxy	90	15	H	Autoclave	120	1,5	2 - 4	-	-		100 - 110	n.a.	100 - 110	120 - 125	n.a.	n.a.	Expanding epoxy paste	Dark grey	Yes
IMP 650	Epoxy	7	15	M	OoA	100	2	0	-	-		100 - 105	-	115 - 125	135 - 145			OoA applications	Transparent, for high aesthetic features requirement	Yes
						90	3		-	-		90 - 95	-	110 - 120	125 - 135					
						80	5		-	-		90 - 95	-	100 - 110	115 - 125					
						70	18		120	1		60 - 80	95 - 100	95 - 105	110 - 120	115 - 125	135 - 145			
						65	18		120	1		60 - 80	95 - 100	85 - 95	100 - 110	115 - 125	135 -145			
					Autoclave	120	1	0 - 6	-	-		100 - 105	-	120 - 130	140 - 150	-	-			
					Hot press moulding	150	8 min	-	-	-		-	-	95 - 100	-	-				
						145	10 min	-	-	-		-	-	95 - 100	-	-				
						140	15 min	-	-	-		-	-	100 - 105	-	-				
						135	18 min	-	-	-		-	-	100 - 105	-	-				
						130	22 min	-	-	-		-	-	105 - 110	-	-				
						125	25 min	-	-	-		-	-	105 - 110	-	-				

Woven Fabrics Reinforcement

02 —

Angeloni has an amazing experience mainly on carbon fiber and hybrids fabrics productions, supported by a high production capacity.
We focus on tailor-made solutions.



FABRICS AVAILABILITY

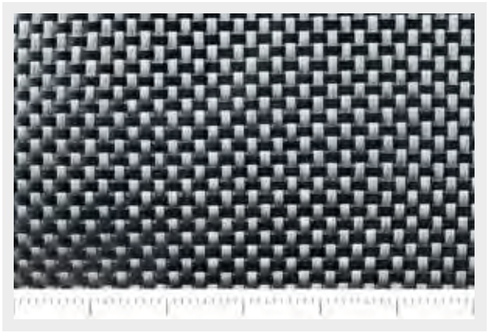
STANDARD: normally regularly on stock.

UPON REQUEST: minimum order quantity and production details have to be discussed.

Carbon Standard References

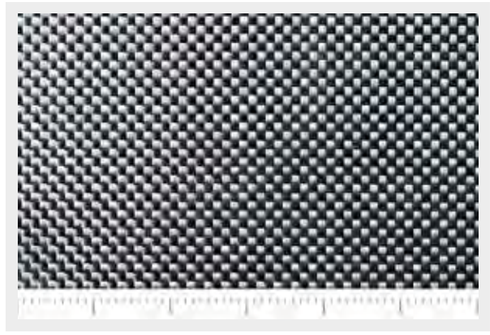
1K-3K Carbon Balanced Fabrics

REFERENCE	WEIGHT g/m²	WEAVING STYLE	WEIGHT RATE			TEXTILE COMPOSITION				STD. WIDTH cm	THICKNESS mm	STD	UPON REQUEST
			WARP %	WEFT %		ENDS cm	WARP FIBER QUALITY	ENDS cm	WEFT FIBER QUALITY				
GG 80 P	80	Plain	50%	50%		6,0	1K carbon 66 tex	6,0	1K carbon 66 tex	100	0,10		•
GG 90 P	90	Plain	50%	50%		6,9	1K carbon 66 tex	6,9	1K carbon 66 tex	100	0,10	•	
GG 120 P	120	Plain	50%	50%		9,0	1K carbon 66 tex	9,0	1K carbon 66 tex	100	0,12	•	
GG 120 T	120	Twill	50%	50%		9,0	1K carbon 66 tex	9,0	1K carbon 66 tex	100	0,12		•
GG 160 P	160	Plain	50%	50%		4,0	3K carbon 200 tex	4,0	3K carbon 200 tex	100	0,16		•
GG 160 T	160	2×2 Twill	50%	50%		4,0	3K carbon 200 tex	4,0	3K carbon 200 tex	100	0,16	•	
GG 200 P	192	Plain	50%	50%		4,8	3K carbon 200 tex	4,8	3K carbon 200 tex	100	0,18	•	
GG 200 T	192	2×2 Twill	50%	50%		4,8	3K carbon 200 tex	4,8	3K carbon 200 tex	100	0,18	•	
GG 204 P	204	Plain	50%	50%		5,1	3K carbon 200 tex	5,1	3K carbon 200 tex	100	0,19	•	
GG 204 T	206	2×2 Twill	50%	50%		5,1	3K carbon 200 tex	5,1	3K carbon 200 tex	100	0,20	•	
GG 206 P	200	Plain	50%	50%		5,0	3K carbon 200 tex	5,0	3K carbon 200 tex	100	0,19	•	
GG 206 T	200	2×2 Twill	50%	50%		5,0	3K carbon 200 tex	5,0	3K carbon 200 tex	100	0,19	•	

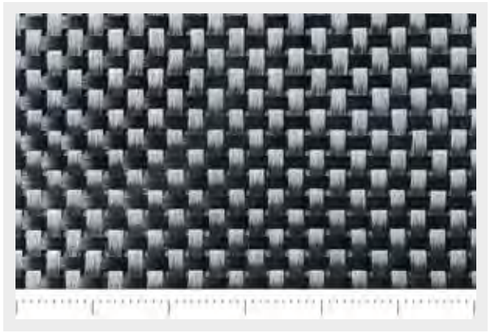


GG 80 P

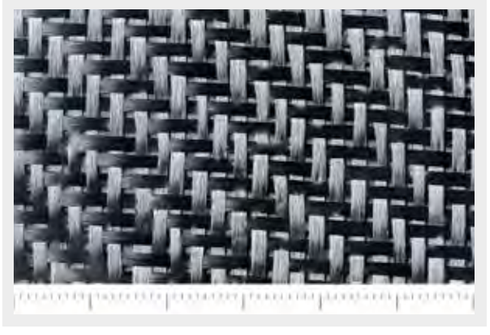
GG 90 P



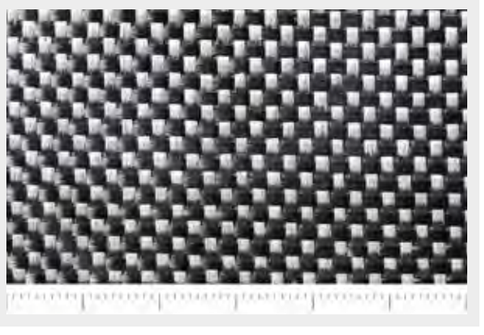
GG 120 P



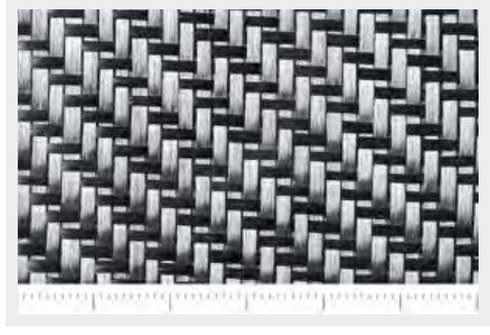
GG 160 P



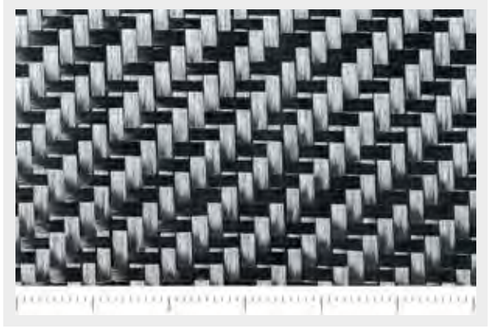
GG 160 T



GG 200 P



GG 200 T



GG 206 T

Carbon Standard References

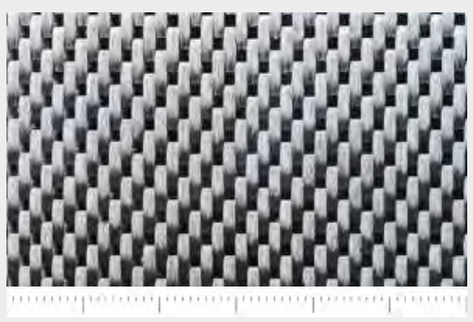
1K-3K Carbon Balanced Fabrics

REFERENCE	WEIGHT g/m²	WEAVING STYLE	WEIGHT RATE			TEXTILE COMPOSITION				STD. WIDTH cm	THICKNESS mm	STD	UPON REQUEST
			WARP %	WEFT %		ENDS cm	WARP FIBER QUALITY	ENDS cm	WEFT FIBER QUALITY				
GG 240 P	240	Plain	50%	50%		6,0	3K carbon 200 tex	6,0	3K carbon 200 tex	100	0,23		•
GG 240 T	240	2×2 Twill	50%	50%		6,0	3K carbon 200 tex	6,0	3K carbon 200 tex	100	0,23	•	
GG 240 F	240	Fish	50%	50%		6,0	3K carbon 200 tex	6,0	3K carbon 200 tex	100	0,23		•
GG 285 T	280	2×2 Twill	50%	50%		7,0	3K carbon 200 tex	7,0	3K carbon 200 tex	100	0,28	•	
GG 285 T4	280	4×4 Twill	50%	50%		7,0	3K carbon 200 tex	7,0	3K carbon 200 tex	100	0,28	•	
GG 285 F	280	Fish	50%	50%		7,0	3K carbon 200 tex	7,0	3K carbon 200 tex	100	0,28		•
GG 285 H5	280	5H Satin	50%	50%		7,0	3K carbon 200 tex	7,0	3K carbon 200 tex	100	0,28		•

GG 240 T

GG 285 T

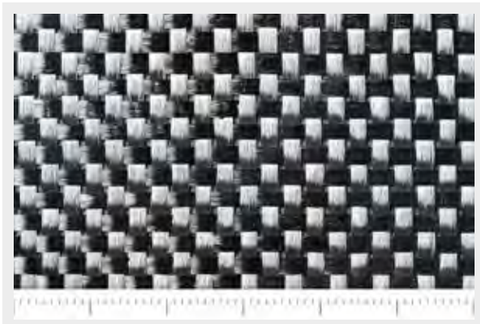
GG 285 T4



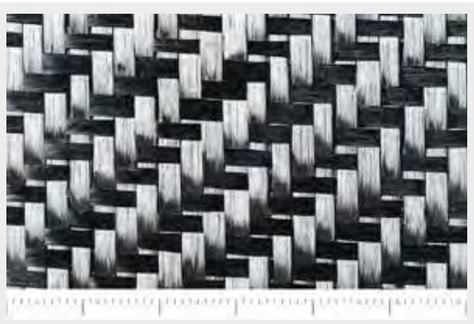
GG 285 H5

6K Carbon Balanced Fabrics

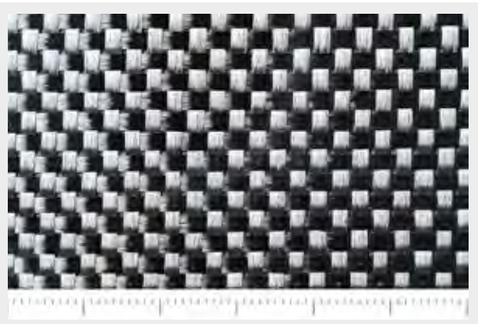
REFERENCE	WEIGHT g/m²	WEAVING STYLE	WEIGHT RATE			TEXTILE COMPOSITION				STD. WIDTH cm	THICKNESS mm	STD	UPON REQUEST
			WARP %	WEFT %		ENDS cm	WARP FIBER QUALITY	ENDS cm	WEFT FIBER QUALITY				
GG 246 T	240	2×2 Twill	50%	50%		3,0	6K carbon 400 tex	3,0	6K carbon 400 tex	100	0,24		•
GG 280 P	280	Plain	50%	50%		3,5	6K carbon 400 tex	3,5	6K carbon 400 tex	100	0,27	•	
GG 280 T	280	2×2 Twill	50%	50%		3,5	6K carbon 400 tex	3,5	6K carbon 400 tex	100	0,27	•	
GG 300 P	300	Plain	50%	50%		3,7	6K carbon 400 tex	3,7	6K carbon 400 tex	100	0,29	•	
GG 300 T	300	2×2 Twill	50%	50%		3,7	6K carbon 400 tex	3,7	6K carbon 400 tex	100	0,29	•	
GG 330 P	344	Plain	50%	50%		4,3	6K carbon 400 tex	4,3	6K carbon 400 tex	100	0,32		•
GG 330 T	344	2×2 Twill	50%	50%		4,3	6K carbon 400 tex	4,3	6K carbon 400 tex	100	0,32	•	
GG 370 H	370	4H Satin	50%	50%		4,6	6K carbon 400 tex	4,6	6K carbon 400 tex	100	0,36		•
GG 406 T	400	2×2 Twill	50%	50%		4,9	6K carbon 400 tex	5,0	6K carbon 400 tex	100	0,40		•
GG 450 T4	450	4×4 Twill	50%	50%		5,6	6K carbon 400 tex	5,6	6K carbon 400 tex	100	0,44		•



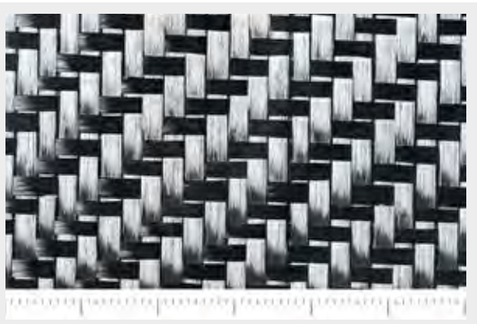
GG 280 P



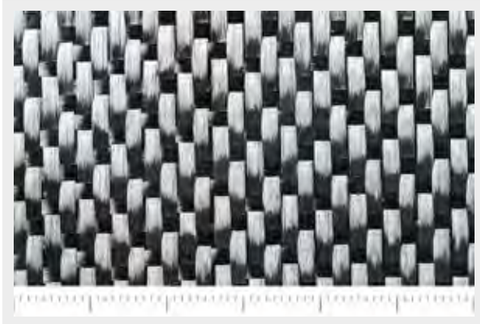
GG 280 T



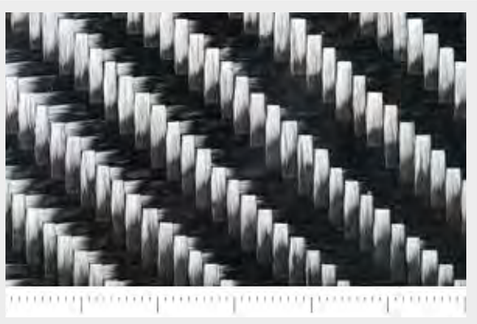
GG 300 P



GG 300 T



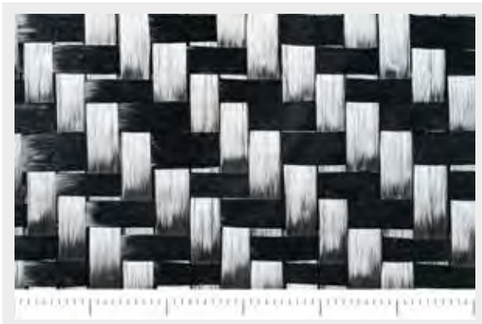
GG 370 H



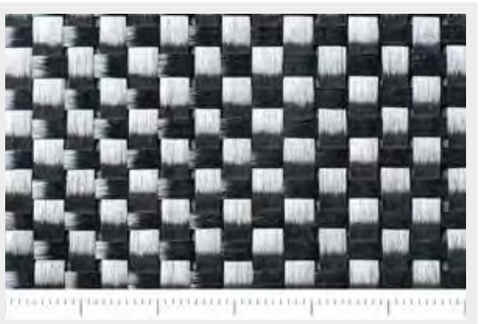
GG 450 T4

12K Carbon Balanced Fabrics

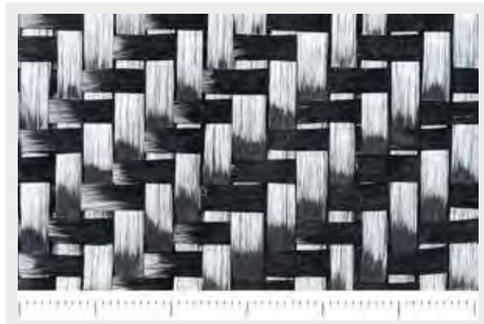
REFERENCE	WEIGHT g/m²	WEAVING STYLE	WEIGHT RATE			TEXTILE COMPOSITION				STD. WIDTH cm	THICKNESS mm	STD	UPON REQUEST
			WARP %	WEFT %		ENDS cm	WARP FIBER QUALITY	ENDS cm	WEFT FIBER QUALITY				
GG 380 P	380	Plain	50%	50%		2,35	12K carbon 800 tex	2,40	12K carbon 800 tex	100	0,37		•
GG 380 T	380	2×2 Twill	50%	50%		2,35	12K carbon 800 tex	2,40	12K carbon 800 tex	100	0,37	•	
GG 400 P	400	Plain	50%	50%		2,50	12K carbon 800 tex	2,50	12K carbon 800 tex	100	0,39	•	
GG 416 T	408	2×2 Twill	50%	50%		2,50	12K carbon 800 tex	2,60	12K carbon 800 tex	100	0,41	•	
GG 428 T	430	2×2 Twill	50%	50%		2,65	12K carbon 800 tex	2,70	12K carbon 800 tex	100	0,42	•	
GG 600 P	600	Plain	50%	50%		3,70	12K carbon 800 tex	3,70	12K carbon 800 tex	100	0,60		•
GG 600 T	600	2×2 Twill	50%	50%		3,70	12K carbon 800 tex	3,70	12K carbon 800 tex	100	0,60	•	
GG 630 T	616	2×2 Twill	50%	50%		3,80	12K carbon 800 tex	3,90	12K carbon 800 tex	100	0,62	•	
GG 650 T	640	2×2 Twill	50%	50%		4,00	12K carbon 800 tex	4,00	12K carbon 800 tex	100	0,62		•



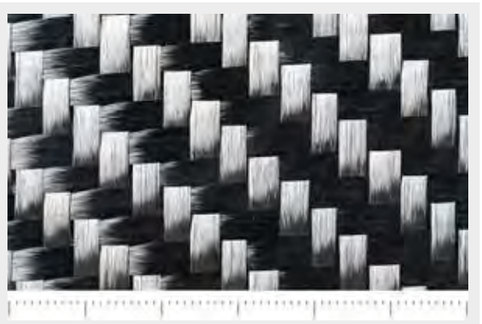
GG 380 T



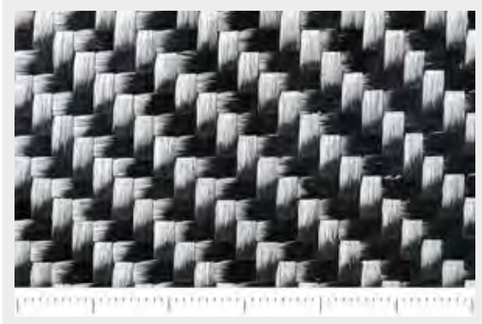
GG 400 P



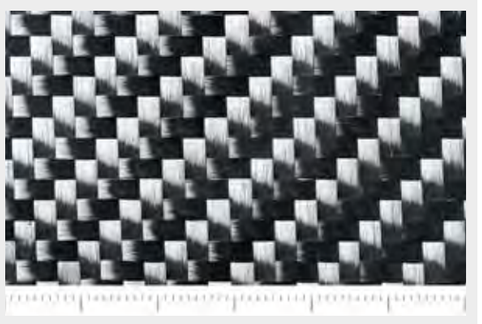
GG 416 T



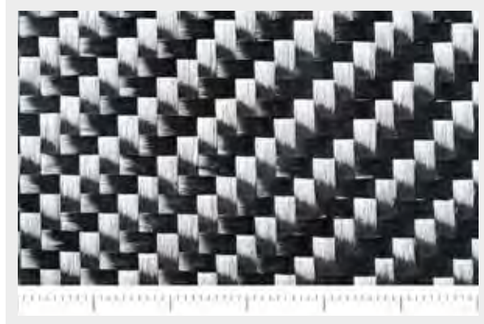
GG 428 T



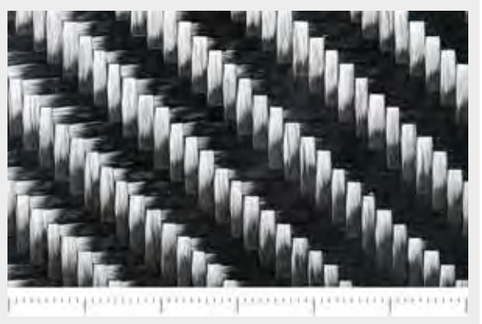
GG 600 T



GG 630 T



GG 650 T



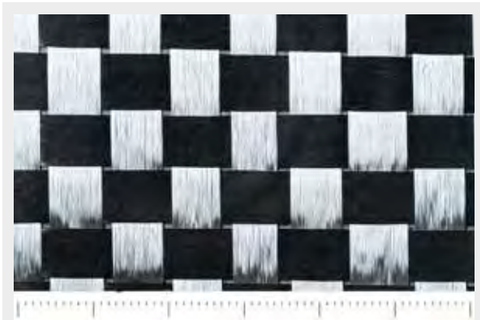
GG 450 T4

12K Spread Tow Carbon Balanced Fabrics

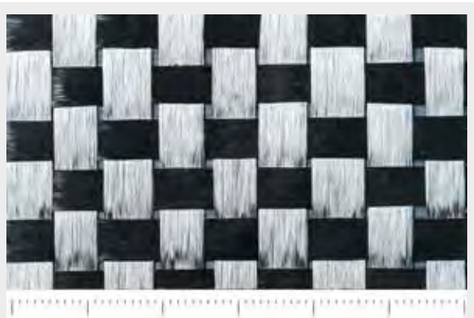
REFERENCE	WEIGHT g/m²	WEAVING STYLE	WEIGHT RATE			TEXTILE COMPOSITION				STD. WIDTH cm	THICKNESS mm	STD	UPON REQUEST
			WARP %	WEFT %		ENDS cm	WARP FIBER QUALITY	ENDS cm	WEFT FIBER QUALITY				
ST-200 P	200	Plain	50%	50%		1,25	12K carbon fiber “Flat tow” 800 tex	1,25	12K carbon fiber “Flat tow” 800 tex	1000	0,19		•
ST-230 P	232	Plain	52%	48%		1,50	12K carbon fiber “Flat tow” 800 tex	1,40	12K carbon fiber “Flat tow” 800 tex	1000	0,22	•	
ST-230 T	232	2×2 Twill	52%	48%		1,50	12K carbon fiber “Flat tow” 800 tex	1,40	12K carbon fiber “Flat tow” 800 tex	1000	0,22		•

24K Carbon Balanced Fabrics

REFERENCE	WEIGHT g/m²	WEAVING STYLE	WEIGHT RATE			TEXTILE COMPOSITION				STD. WIDTH cm	THICKNESS mm	STD	UPON REQUEST
			WARP %	WEFT %		ENDS cm	WARP FIBER QUALITY	ENDS cm	WEFT FIBER QUALITY				
GG 602 P	600	Plain	50%	50%		1,90	24K carbon 1600 tex	1,90	24K carbon 1600 tex	100	0,60		•
GG 602 T	600	2×2 Twill	50%	50%		1,90	24K carbon 1600 tex	1,90	24K carbon 1600 tex	100	0,60		•
GG 632 T	630	2×2 Twill	51%	49%		1,90	24K carbon 1600 tex	2,00	24K carbon 1600 tex	100	0,62		•
GG 800 T	790	2×2 Twill	50%	50%		2,50	24K carbon 1600 tex	2,50	24K carbon 1600 tex	100	0,79	•	
GG 1000 T	992	2×2 Twill	50%	50%		3,10	24K carbon 1600 tex	3,10	24K carbon 1600 tex	100	1,00		•
GG 1200 T	1168	2×2 Twill	50%	50%		3,70	24K carbon 1600 tex	3,60	24K carbon 1600 tex	100	1,20	•	

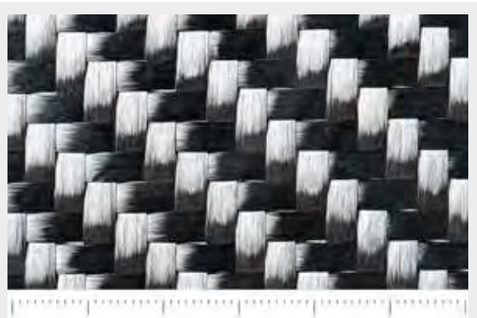


ST-200



ST 230

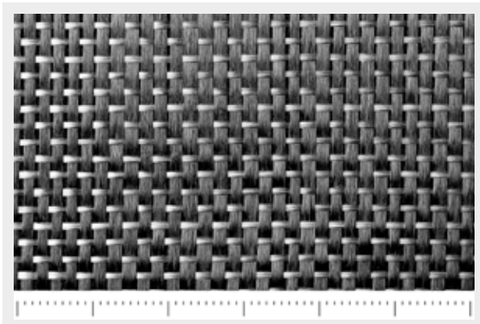
GG 632 T



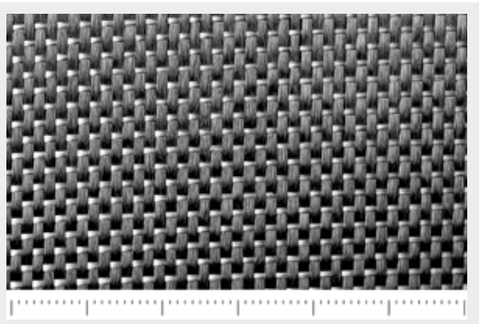
GG 800 T

Unidirectional Carbon Fabrics

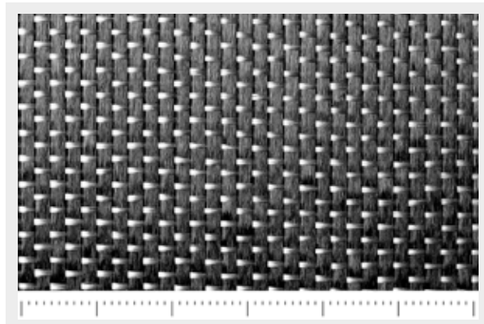
REFERENCE	WEIGHT g/m²	WEAVING STYLE	WEIGHT RATE			TEXTILE COMPOSITION				STD. WIDTH cm	THICKNESS mm	STD	UPON REQUEST
			WARP %	WEFT %		ENDS cm	WARP FIBER QUALITY	ENDS cm	WEFT FIBER QUALITY				
GV 125 U	125	Plain	75%	25%		4,8	3K carbon 200 tex	4,7	glass EC 9 68	100	0,10	•	
GV 170 U	170	Plain	81%	19%		7,0	3K carbon 200 tex	4,7	glass EC 9 68	100	0,15	•	
GV 200 U	220	Plain	90%	10%		4,8	6K carbon 400 tex	6,0	glass EC 9 34	100	0,20	•	
GV 330 U	330	Plain	94%	6%		3,8	12K carbon 800 tex	3,0	glass EC 9 68	100	0,30	•	
GV 335 U	330	Plain	-	-		3,4	GRANOC XN 80-6K	4	glass EC 9 68 Tex	1000		•	
GV 420 U	420	Plain	95%	5%		5,0	12K carbon 800 tex	3,0	glass EC 9 68	100	0,40	•	
GV 421 U	435	Plain	92%	8%		2,5	24K carbon 1600 tex	2,5	glass EC 9 136	100	0,40		•
GV 520 U	520	Plain	94%	6%		3,0	24K carbon 1600 tex	2,3	glass EC 9 136	100	0,50		•



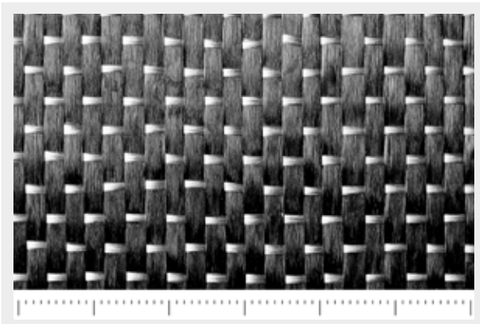
GV 125 U



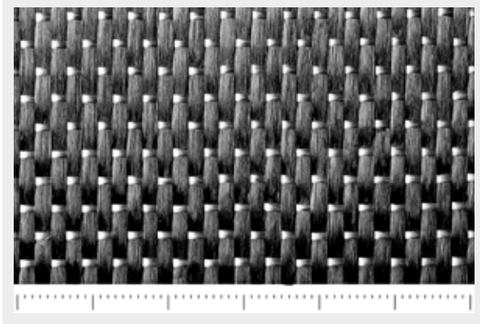
GV 170 U



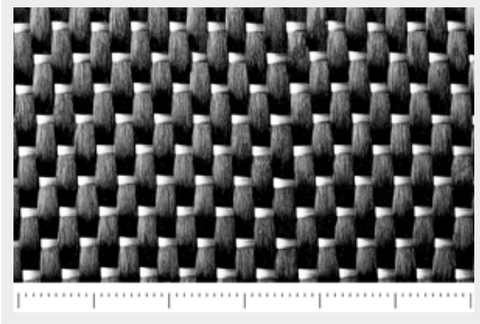
GV 200 U



GV 330 U



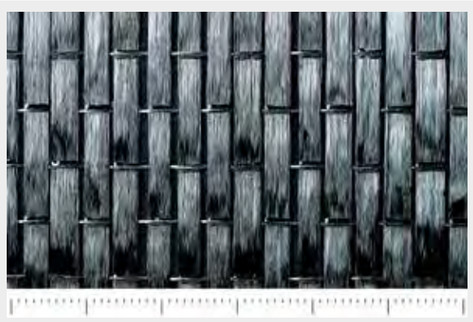
GV 420 U



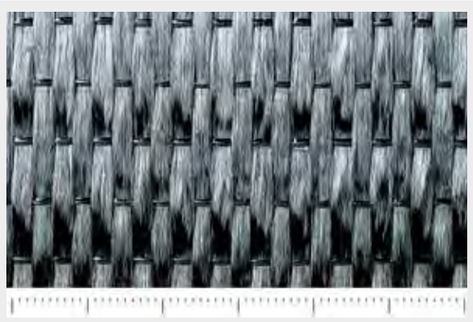
GV 620 U

Thermofixed UD Carbon Fabrics

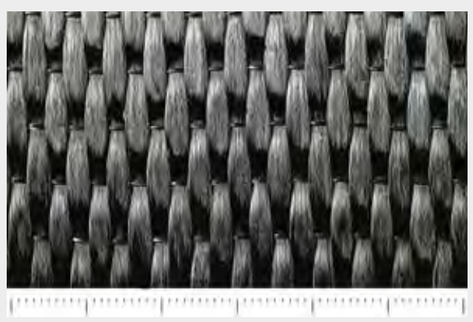
REFERENCE	WEIGHT g/m²	WEAVING STYLE	WEIGHT RATE			TEXTILE COMPOSITION				STD. WIDTH cm	THICKNESS mm	STD	UPON REQUEST
			WARP %	WEFT %		ENDS cm	WARP FIBER QUALITY	ENDS cm	WEFT FIBER QUALITY				
GV 201 U TFX	218	Plain	92%	8%		2,5	12K carbon	1,5	Thermopl. yarn 110 tex	50/100	0,20	•	
GV 300 U TFX	322	Plain	95%	5%		3,8	12K carbon	1,6	Thermopl. yarn 110 tex	50/100	0,29		•
GV 301 U TFX	322	Plain	95%	5%		1,9	24K carbon	1,6	Thermopl. yarn 110 tex	50/100	0,29	•	
GV 400 U TFX	420	Plain	96%	4%		5,0	12K carbon	1,6	Thermopl. yarn 110 tex	50/100	0,40	•	
GV 401 U TFX	420	Plain	96%	4%		2,5	24K carbon	1,6	Thermopl. yarn 110 tex	50/100	0,40	•	
GV 501 U TFX	509	Plain	97%	3%		3,1	24K carbon	1,2	Thermopl. yarn 110 tex	50/100	0,50		•
GV 601 U TFX	606	Plain	98%	2%		3,7	24K carbon	1,3	Thermopl. yarn 110 tex	50/100	0,70	•	



GV 201 U TFX



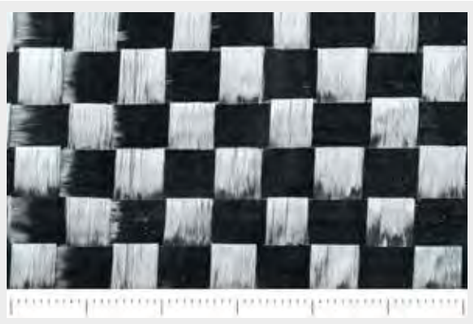
GV 300 U TFX



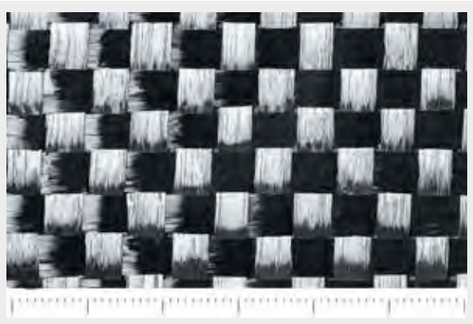
GV 601 U TFX

Intermediate Modulus

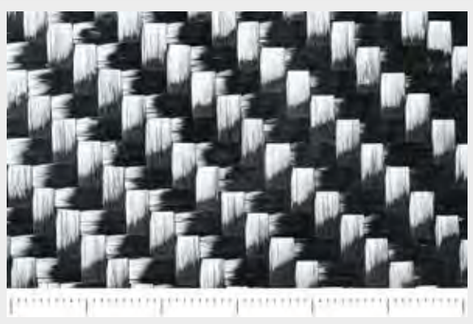
DESIGNATION	FIBER TYPE	WEIGHT	WEAVE	FIBER'S SPREAD		TEXTILE COMPOSITION				WIDTH mm	STD	UPON REQUEST
						ENDS cm	WARP FIBER QUALITY	ENDS cm	WEFT FIBER QUALITY			
IMG-230 P	Carbon IM-24K	230	Plain	Yes		1,20	Pyrofil MR60H - 24K - 960 Tex	1,20	Pyrofil MR60H - 24K - 960 Tex	1000/1270		•
IMG-290 P	Carbon IM-24K	295	Plain	Yes		1,50	Pyrofil MR60H - 24K - 960 Tex	1,55	Pyrofil MR60H - 24K - 960 Tex	1000/1270	•	
IMG-370 P	Carbon IM-24K	370	Plain	Yes		1,86	Pyrofil MR60H - 24K - 960 Tex	1,90	Pyrofil MR60H - 24K - 960 Tex	1000/1270	•	
IMG-630 T	Carbon IM-24K	624	Twill 2×2	No		3,20	Pyrofil MR60H - 24K - 960 Tex	3,30	Pyrofil MR60H - 24K - 960 Tex	1000/1270	•	



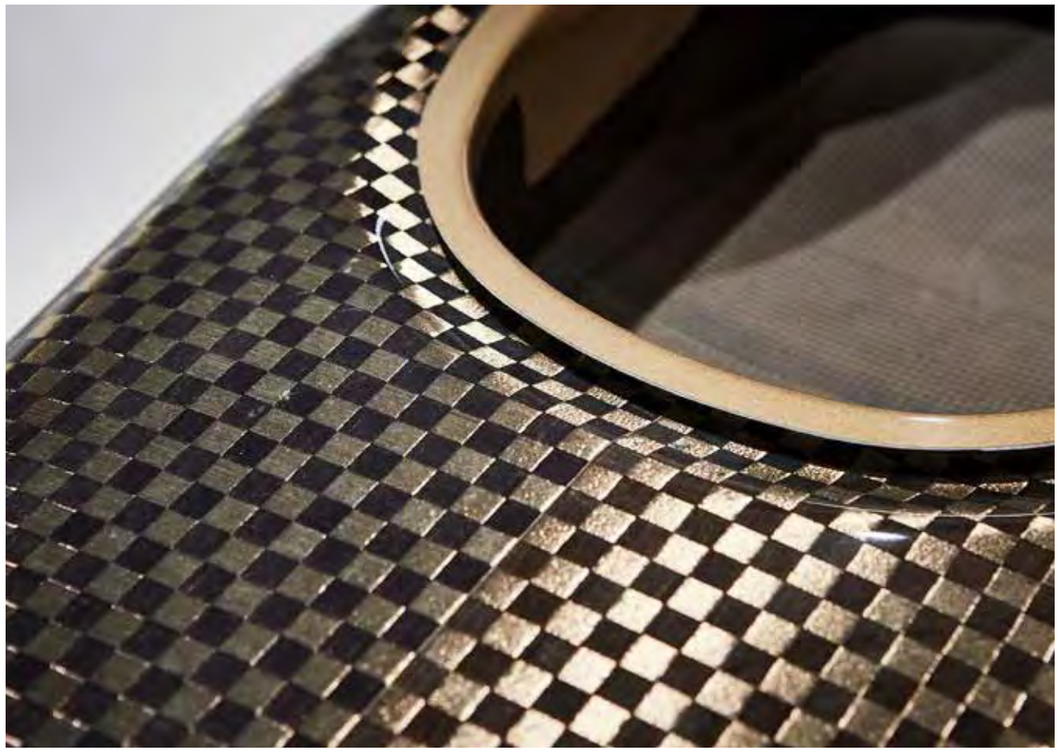
IMG-290 P



IMG-370 P



IMG-630 T



Heavy Tows - Thermo-fixed UD Fabrics & Tapes

DESIGNATION	FIBER TYPE	WEIGHT	WEAVE	THERMO FIXATION	TEXTILE COMPOSITION				WIDTH mm	STD	UPON REQUEST
					ENDS cm	WARP FIBER QUALITY	ENDS cm	WEFT FIBER QUALITY			
GV 602 U	carbon 48K	616	Plain	Yes	1,90 0,95	48K Carbon fiber 3200 Tex Glass fiber EC9 136 Tex	1,00	Glass thermoplastic coated 110 Tex	50/1200		•
GV 801 U	carbon 48K	828	Plain	Yes	2,50 1,25	48K Carbon fiber 3200 Tex Glass fiber EC9 136 Tex	1,00	Glass thermoplastic coated 110 Tex	50/1200		•
GV 1000 U	carbon 48K	1023	Plain	Yes	3,10 1,50	48K Carbon fiber 3200 Tex Glass fiber EC9 136 Tex	1,00	Glass thermoplastic coated 110 Tex	50/1200		•
GV 1200 U	carbon 48K	1190	Plain	Yes	3,60 1,80	48K Carbon fiber 3200 Tex Glass fiber EC9 136 Tex	1,00	Glass thermoplastic coated 110 Tex	50/1200		•
GV 1001	carbon 50K	1033	Plain	Yes	2,70 1,35	50K Carbon fiber 3700 Tex Glass fiber EC9 136 Tex	1,00	Glass thermoplastic coated 110 Tex	50/1200		•

Special Fabrics for Special Designs (HVQ)

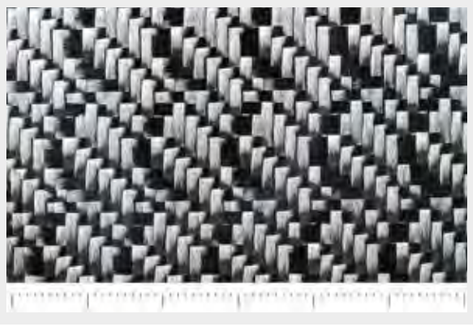
3K Carbon Fabrics - New Styles

REFERENCE	WEIGHT g/m²	WIDTH mm	WEAVING STYLE	WEIGHT RATE			TEXTILE COMPOSITION						STD	UPON REQUEST
				WARP %	WEFT %		ENDS cm	WEFT FIBER QUALITY	WEIGHT g/m²	ENDS cm	WARP FIBER QUALITY	WEIGHT g/m²		
GG 275 – Style V610	275	1000	V610	53%	47%		6,5	3K carbon fibre – 200 tex	144	7,2	3K carbon fibre – 200 tex	130	•	
GG 290 – Style 309	290	1000	309	50%	50%		7,3	3K carbon fibre – 200 tex	144	7,2	3K carbon fibre – 200 tex	146	•	
GG 280 – Style 4776	280	1000	4776	51%	49%		6,8	3K carbon fibre – 200 tex	144	7,2	3K carbon fibre – 200 tex	136	•	

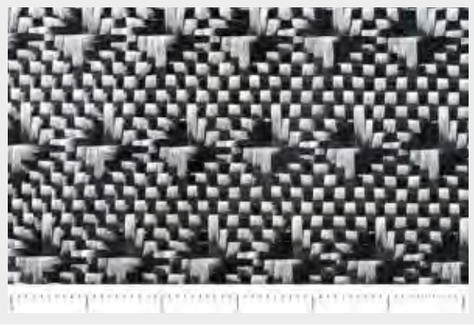
3K Carbon Fabrics – Special Patterns

REFERENCE	WEIGHT g/m²	WEAVING STYLE	WEIGHT RATE			TEXTILE COMPOSITION						STD	UPON REQUEST
			WARP %	WEFT %		ENDS cm	WEFT FIBER QUALITY	WEIGHT g/m²	ENDS cm	WARP FIBER QUALITY	WEIGHT g/m²		
GG 290 – Style X3	290	C9	48%	52%		7,0	3K carbon fibre – 200 tex	140	7,3	3K carbon fibre – 200 tex	146		•
GG 290 – Style X5	285	C8	50%	50%		7,0	3K carbon fibre – 200 tex	140	7,0	3K carbon fibre – 200 tex	140		•
GG 285 – Style X6	285	X6	50%	50%		7,0	3K carbon fibre – 200 tex	140	7,0	3K carbon fibre – 200 tex	140		•
GG 285 – Style X21	285	F8	50%	50%		7,0	3K carbon fibre – 200 tex	140	7,0	3K carbon fibre – 200 tex	140		•
GG 285 – Style X28	285	39017	50%	50%		7,0	3K carbon fibre – 200 tex	140	7,0	3K carbon fibre – 200 tex	140		•
GG 300 – Style X30	300	38538	47%	53%		7,0	3K carbon fibre – 200 tex	140	7,9	3K carbon fibre – 200 tex	158		•
GG 300 – Style CR2	300	F10	47%	53%		7,0	3K carbon fibre – 200 tex	140	7,9	3K carbon fibre – 200 tex	158		•
GG 285 – Style CR5	285	39151	50%	50%		7,0	3K carbon fibre – 200 tex	140	7,0	3K carbon fibre – 200 tex	140		•
GG 285 – Style CR7	285	F7	50%	50%		7,0	3K carbon fibre – 200 tex	140	7,0	3K carbon fibre – 200 tex	140		•

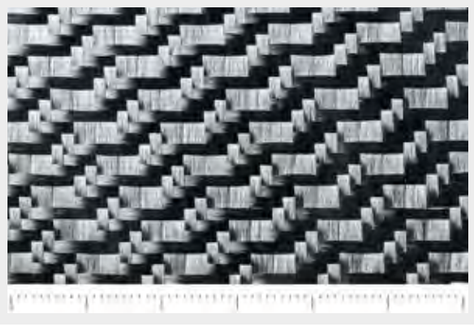
GG 285 STYLE 133



GG 285 CR11



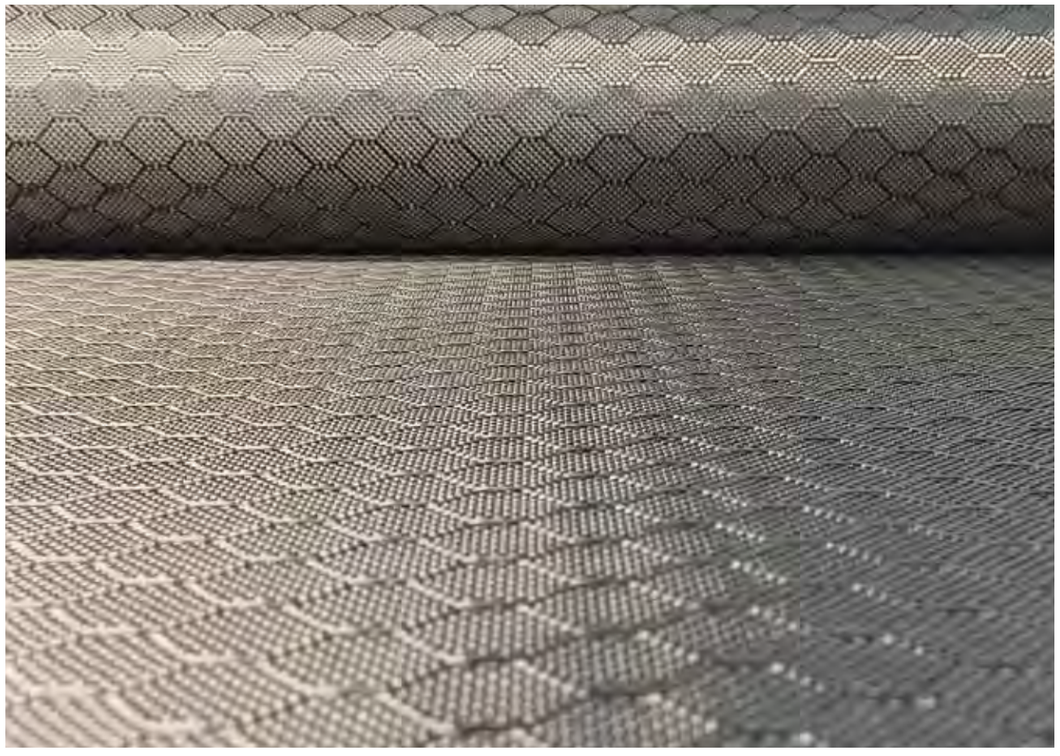
GG 285 CR17



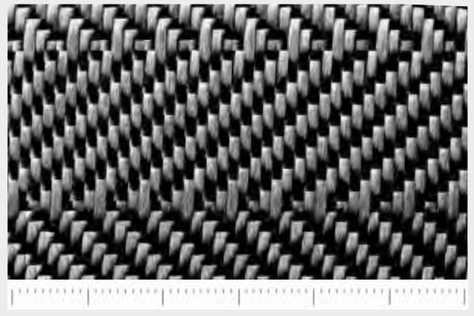
GG 285 D15

3K Carbon Fabrics – Special Patterns

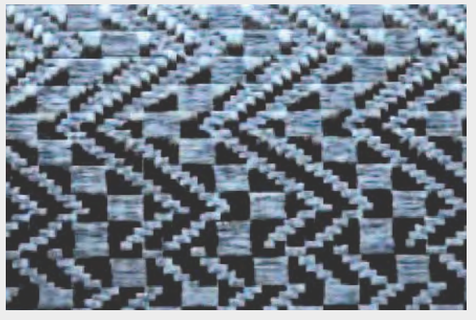
REFERENCE	WEIGHT g/m²	WEAVING STYLE	WEIGHT RATE			TEXTILE COMPOSITION						STD	UPON RE-QUEST
			WARP %	WEFT %		ENDS cm	WEFT FIBER QUALITY	WEIGHT g/m²	ENDS cm	WARP FIBER QUALITY	WIDTH		
GG 300 – Style CR9	295	39169	47%	53%		7,0	3K carbon fibre – 200 tex	140	7,6	3K carbon fibre – 200 tex	152		•
GG 285 – Style CR11	285	39146	50%	50%		7,0	3K carbon fibre – 200 tex	140	7,0	3K carbon fibre – 200 tex	140		•
GG 285 – Style CR17	285	39154	50%	50%		7,0	3K carbon fibre – 200 tex	140	7,0	3K carbon fibre – 200 tex	140		•
GG 285 – Style CR20	285	39160	50%	50%		7,0	3K carbon fibre – 200 tex	140	7,0	3K carbon fibre – 200 tex	140		•
GG 285 – Style D5	285	38582	50%	50%		7,0	3K carbon fibre – 200 tex	140	7,0	3K carbon fibre – 200 tex	140		•
GG 285 – Style D8	285	38585	50%	50%		7,0	3K carbon fibre – 200 tex	140	7,0	3K carbon fibre – 200 tex	140		•
GG 285 – Style D10	285	38512	50%	50%		7,0	3K carbon fibre – 200 tex	140	7,0	3K carbon fibre – 200 tex	140		•
GG 285 – Style D13	285	38531	50%	50%		7,0	3K carbon fibre – 200 tex	140	7,0	3K carbon fibre – 200 tex	140		•
GG 290 – Style D15	290	38538	48%	52%		7,0	3K carbon fibre – 200 tex	140	7,2	3K carbon fibre – 200 tex	145		•
GG 290 – Style D20	290	39027	48%	52%		7,0	3K carbon fibre – 200 tex	140	7,2	3K carbon fibre – 200 tex	145		•



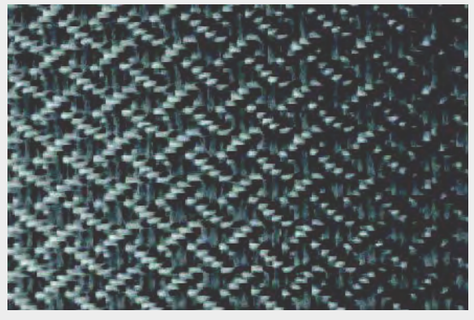
GG 285 D20



GG 285 F



GG 285 557



GG 285 X5

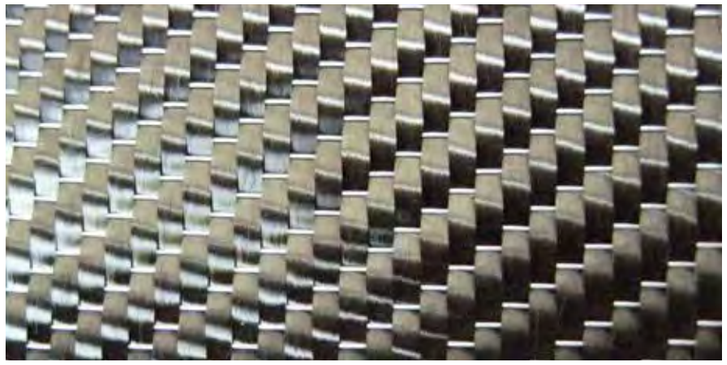
Innovative Tex

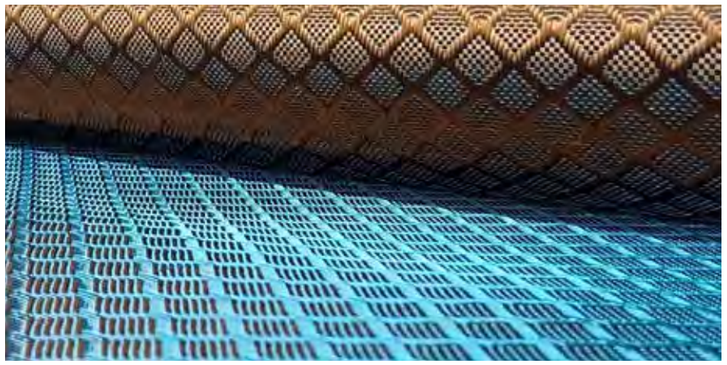
Metallic Wires and High Tech Fibers

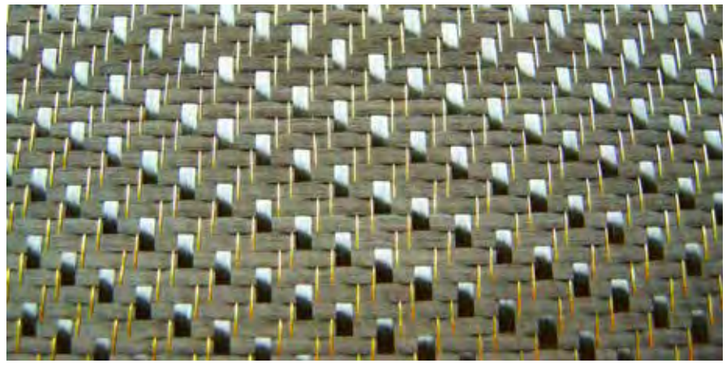
Metal reinforced Hybrid Fabrics produced by combining high tech fibres (Carbon, Aramid, Glass) and metal wires (Titanium, Stainless Steel, Copper, Brass) developed and patented in conjunction with Alenia Aeronautica, they are the ultimate result of extensive research and developmente between the 2 companies.

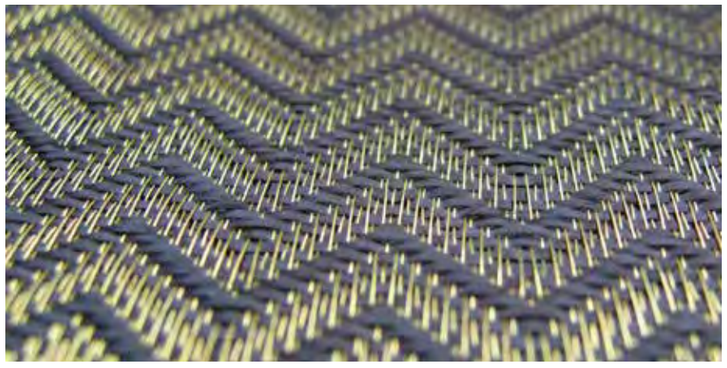
Fibers and metals used:

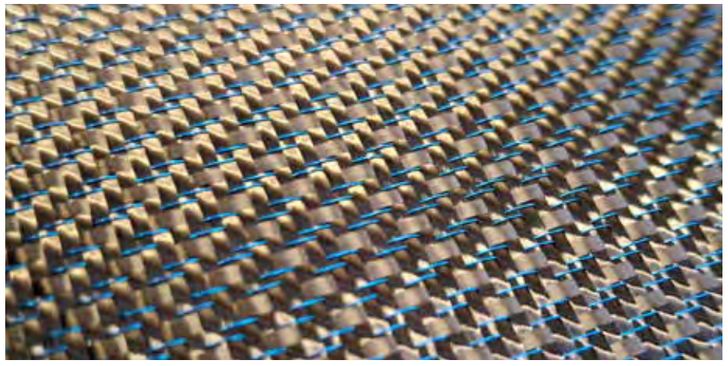
- HS Carbon fiber
- IM Carbon fiber
- HM Carbon fiber
- Aramid Twaron 2200
- HM Polyester fiber
- Glass Roving fiber
- Glass Textile fiber
- Grade 5 Titanium
- Inox Steel AISI 316 Ti
- Inox Steel AISI 304
- Copper 99.9
- Brass
- Pure Gold 750/1000
- Silver 900/1000









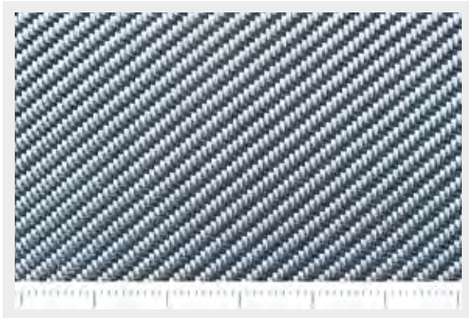


Alutex Standard

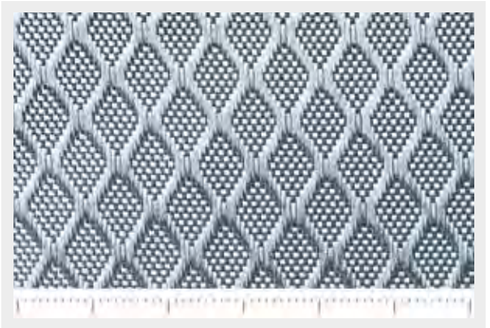
Alutex (Aluminized Glass Fabrics)

REFERENCE	WEIGHT g/m²	PATTERN	TYPE OF COATING	WEAVING STYLE	WEIGHT RATE			TEXTILE COMPOSITION				THICKNESS mm	STD	UPON REQUEST
					WARP %	WEFT %		ENDS cm	WEFT FIBER QUALITY	ENDS cm	WARP FIBER QUALITY			
ALUTEX V-202 T	200	Diagonal	aluminium	2×2 Twill	56	44		16,8	Glass yarn EC9 68 tex	12,0	Glass yarn EC9 68 tex	0,20	•	
ALUTEX V-610	200	Rhomb	aluminium	Plain+Twill	59	41		17,6	Glass yarn EC9 68 tex	12,0	Glass yarn EC9 68 tex	0,20	•	
ALUTEX V-290 T	290	Diagonal	aluminium	2×2 Twill	50	50		7,0	Glass yarn EC9 68×3 tex	7,0	Glass yarn EC11 204 tex	0,28	•	
ALUTEX V-6051 P	290	Plain	aluminium	Plain	50	50		7,0	Glass yarn EC9 68×3 tex	7,0	Glass yarn EC11 204 tex	0,28	•	
ALUTEX V-6023	295	Diag. square	aluminium	Cut Twill	52	48		22,0	Glass yarn EC9 68×3 tex	11,0	Glass yarn EC9 136 tex	0,30	•	
ALUTEX V-6034 T4	295	Diagonal	aluminium	Granite	52	48		22,0	Glass yarn EC9 68 tex	11,0	Glass yarn EC9 136 tex	0,30		•

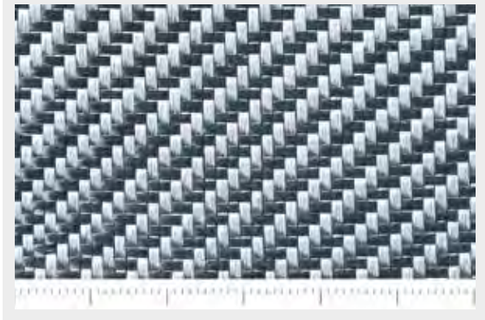
Metallized glass fabrics developed for ski market, with a stunning 3D look effects and good interlaminar adhesion properties.
For this reasons the applications are extended to to a wider range of products such as motorbikes, nautical, naval and sport parts.
Available in a large range of weaving styles and metal coatings (aluminium titanium, copper) they offer completely new designs to composite materials.



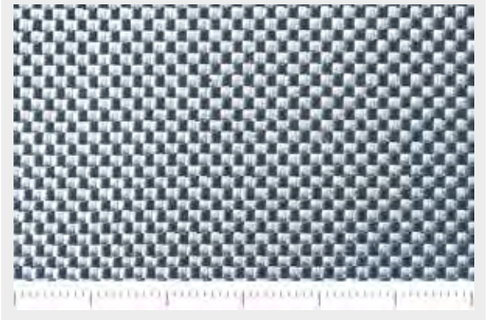
ALUTEX V-202 T



ALUTEX V-610



ALUTEX V-290 T

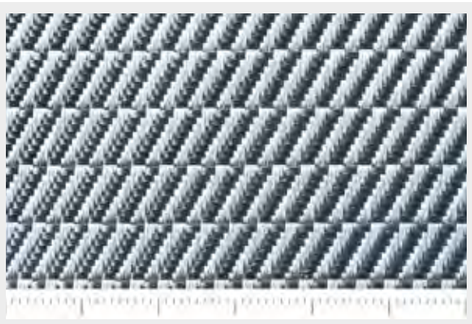


ALUTEX V-6501 P

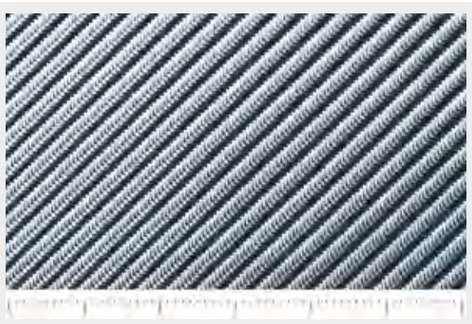
Alutex Standard

Alutex (Aluminized Glass Fabrics)

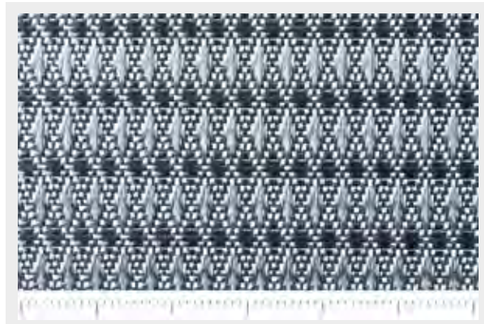
REFERENCE	WEIGHT g/m²	PATTERN	TYPE OF COATING	WEAVING STYLE	WEIGHT RATE			TEXTILE COMPOSITION				THICKNESS mm	STD	UPON REQUEST
					WARP %	WEFT %		ENDS cm	WEFT FIBER QUALITY	ENDS cm	WARP FIBER QUALITY			
ALUTEX V-6036	295	Granite	aluminium	Granite	52	48		22,0	Glass yarn EC9 68×3 tex	11,0	Glass yarn EC9 136 tex	0,30		•
ALUTEX V-6037	295	Double diag.	aluminium	BA 8268/1	52	48		22,0	Glass yarn EC9 68×3 tex	11,0	Glass yarn EC9 136 tex	0,30		•
ALUTEX V-6041	295	Honeycomb	aluminium	Honeycomb	52	48		22,0	Glass yarn EC9 68×3 tex	11,0	Glass yarn EC9 136 tex	0,30		•
ALUTEX V-6039	295	Knot	aluminium	BA 8268/2	52	48		22,0	Glass yarn EC9 68×3 tex	11,0	Glass yarn EC9 136 tex	0,30		•
ALUTEX V-6040	295	Diag. square	aluminium	Cut Twill	52	48		22,0	Glass yarn EC9 68×3 tex	11,0	Glass yarn EC9 136 tex	0,30		•
ALUTEX V-6042	295	Diag. chann.	aluminium	BA 8268/2	52	48		22,0	Glass yarn EC9 68×3 tex	11,0	Glass yarn EC9 136 tex	0,30		•
ALUTEX V-6082	295	Sky arrow	aluminium	Electric	52	48		22,0	Glass yarn EC9 68×3 tex	11,0	Glass yarn EC9 136 tex	0,30	•	
ALUTEX V-620	295	Diagonal	aluminium	Plain+Twill	52	48		17,4	Glass yarn EC9 68 tex	8,5	Glass yarn EC11 204 tex	0,30	•	
ALUTEX V-630	295	Diagonal	aluminium	Plain+Twill	52	48		17,4	Glass yarn EC9 68 tex	8,5	Glass yarn EC11 204 tex	0,30	•	
ALUTEX V-640	295	Diagonal	aluminium	Granite	52	48		17,4	Glass yarn EC9 68 tex	8,5	Glass yarn EC11 204 tex	0,30		•
ALUTEX V-350 P	350	Plain	aluminium	Plain	50	50		5,6	Glass roving 320 tex	5,6	Glass roving 320 tex	0,35		•
ALUTEX V-350 T	350	Diagonal	aluminium	2×2 Twill	50	50		5,6	Glass roving 320 tex	5,6	Glass roving 320 tex	0,35		•



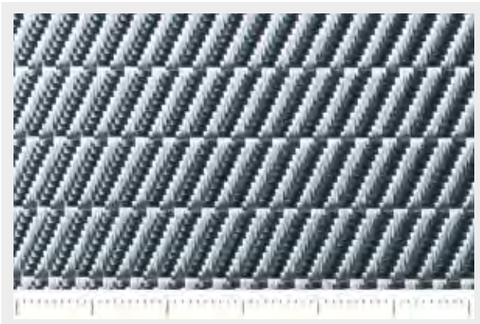
ALUTEX V-6023



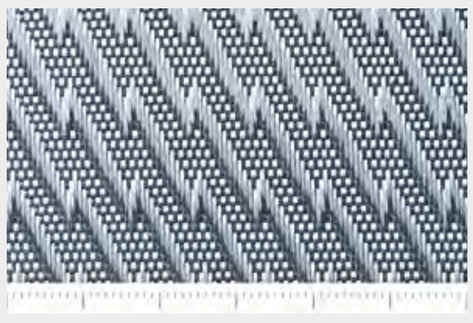
ALUTEX V-6034 T4



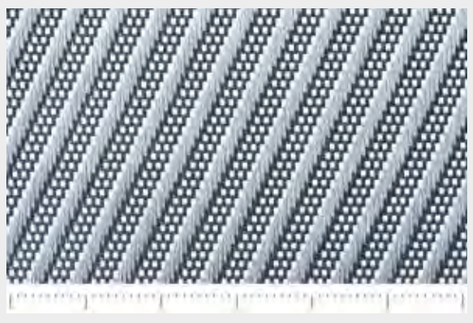
ALUTEX V-6041



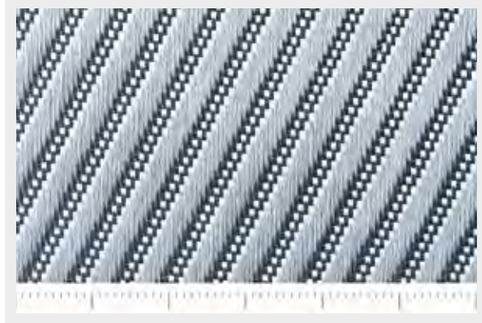
ALUTEX V-6040



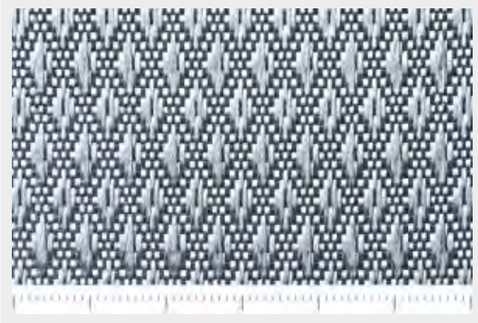
ALUTEX V-6082



ALUTEX V-620



ALUTEX V-630



ALUTEX V-640

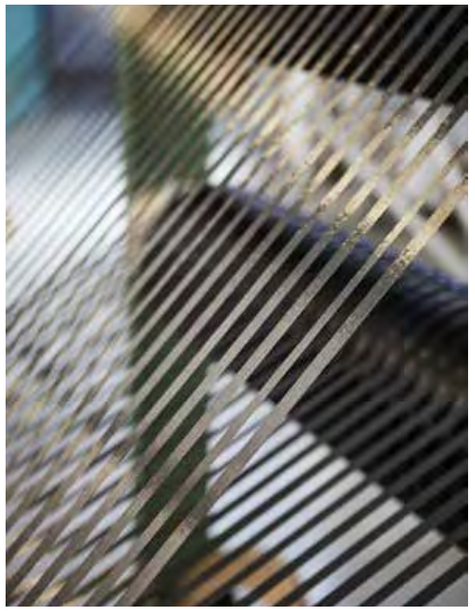
DYNANOTEX
ANGELONI GROUP

UD Carbon Fabrics
UD Glass Fabrics

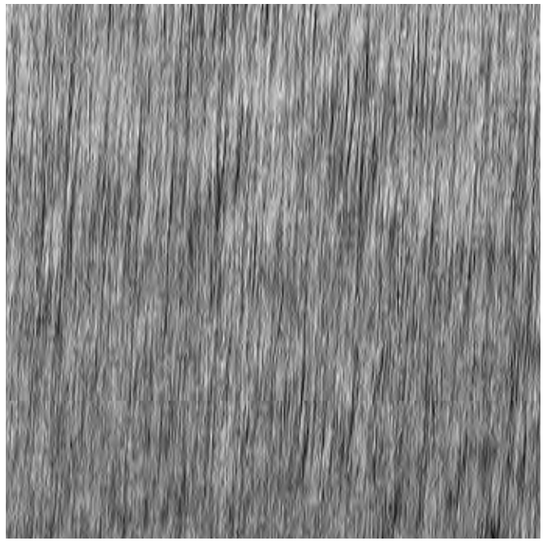
Dynanotex is a Tow Spreading System for Uni Directional Carbon Fibre Reinforcements.
Dynanotex was awarded 2nd place at the Italian Innovation Award 2007. Dynanotex consist of two layers of UD Carbon fibre bonded together by a resin compatible adhesive.

Dynanotex offers:
- No additional surface treatments.
- Perfect fibre alignment.
- Hickness reduction (35% less than traditional UD Reinforcement).
- Low weight Reinforcements (25 to 300g/m^2) from Heavy Tow Fibres (15K-24K-50K).

Dynanotex's main advantages are:
- Perfect alignment of fibre maximises the mechanical performance of the fibres.
- Improvement of interlaminar sheer strength as a result of the perfect bonding of fibre layers.
- Improvement of fibre impregnation.
- Reduction/Elimination of resin build up due to the excellent fibre distribution.



DYNANOTEX HS 15-130



100% Dry Carbon Unidirectional Dyn

REFERENCE	WEIGHT g/m^2	CONSTRUCTION	QUALITY OF FIBRE	CARBON FIBRE CONTENT	STD WIDTH cm	THICKNESS mm	STD	UPON REQUEST
HS 15/25 SLN2	25	single layer	Net + HS Carbon fibre | GRAFIL type 15K – 1000 tex	92%	100	0,020		•
HS 15/45 SLN2	47	single layer	Net + HS Carbon fibre | GRAFIL type 15K - 1000 tex	92%	100	0,050		•
HS 15/80 DLN2	80	double layer	Net + HS Carbon fibre | GRAFIL type 15K - 1000 tex	94%	100	0,075	•	
HS 15/100 DLN2	100	double layer	Net + HS Carbon fibre | GRAFIL type 15K - 1000 tex	94%	100	0,095	•	
HS 15/130 DLN2	130	double layer	Net + HS Carbon fibre | GRAFIL type 15K - 1000 tex	94%	100	0,125	•	
HS 24/150 DLN2	150	double layer	Net + HS Carbon fibre | GRAFIL type 24K - 1600 tex	94%	100	0,145	•	
HS 24/175 DLN2	175	double layer	Net + HS Carbon fibre | GRAFIL type 24K - 1600 tex	92%	100	0,170	•	
HS 24/200 DLN2	200	double layer	Net + HS Carbon fibre | GRAFIL type 24K - 1600 tex	94%	100	0,195	•	
HS 48/250 SLN2N2	250	single layer	Net + HS Carbon fibre | TENAX type 48K - 3200 tex	94%	100	0,25		•
HS 48/300 SLN2N2	300	single layer	Net + HS Carbon fibre | TENAX type 48K - 3200 tex	94%	100	0,30		•

Dynofabrics DYF

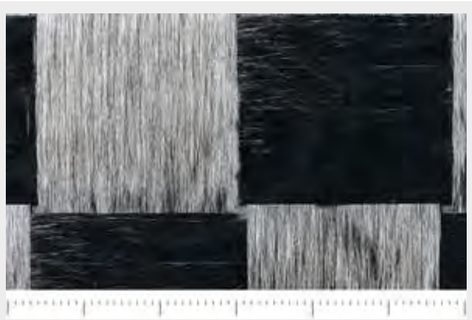
High Tech Flat Fabrics

REFERENCE	WEIGHT g/m²	WEAVING STYLE	WEIGHT RATE			TEXTILE COMPOSITION				THICKNESS mm	WIDTH cm	STD	UPON REQUEST
			WARP %	WEFT %		ENDS cm	WARP FIBER QUALITY	ENDS cm	WEFT FIBER QUALITY				
DYF 15 mm													
DYF 15 - 160 P	160	Plain	50	50		0,66	Dynanotex HS 15/80 DLN2 15 mm.	0,66	Dynanotex HS 15/80 DLN2 15 mm.	0,14	100	•	
DYF 15 - 160 T	160	2×2 Twill	50	50		0,66	Dynanotex HS 15/80 DLN2 15 mm.	0,66	Dynanotex HS 15/80 DLN2 15 mm.	0,14	100	•	
DYF 20 mm													
DYF 20 - 160 P	160	Plain	50	50		0,5	Dynanotex HS 15/80 DLN2 20 mm.	0,5	Dynanotex HS 15/80 DLN2 20 mm.	0,14	100		•
DYF 20 - 160 T	160	2×2 Twill	50	50		0,5	Dynanotex HS 15/80 DLN2 20 mm.	0,5	Dynanotex HS 15/80 DLN2 20 mm.	0,14	100		•
DYF 25 mm													
DYF 25 - 160 P	160	Plain	50	50		0,4	Dynanotex HS 15/80 DLN2 25 mm.	0,4	Dynanotex HS 15/80 DLN2 15 mm.	0,14	100	•	
DYF 25 - 160 T	160	2×2 Twill	50	50		0,4	Dynanotex HS 15/80 DLN2 25 mm.	0,4	Dynanotex HS 15/80 DLN2 25 mm.	0,14	100		•
DYF Metal													
DYF 15-160 P ALU	160	Plain	50	50		0,66	Dynanotex HS 15/80 DLN2 15 mm.	0,66	Dynanotex HS 15/80 DLN2 15 mm. ALU	0,14	100	•	
DYF 15-160 P ALU 2	160	Plain	50	50		0,66	Dynanotex HS 15/80 DLN2 15 mm. ALU	0,66	Dynanotex HS 15/80 DLN2 15 mm. ALU	0,14	100		•
DYF 15-160 T ALU	160	2×2 Twill	50	50		0,66	Dynanotex HS 15/80 DLN2 15 mm.	0,66	Dynanotex HS 15/80 DLN2 15 mm. ALU	0,14	100	•	
DYF 15-160 T ALU2	160	2×2 Twill	50	50		0,66	Dynanotex HS 15/80 DLN2 15 mm. ALU	0,66	Dynanotex HS 15/80 DLN2 15 mm. ALU	0,14	100		•
DYF 15-160 P TIT	160	Plain	50	50		0,66	Dynanotex HS 15/80 DLN2 15 mm.	0,66	Dynanotex HS 15/80 DLN2 15 mm. TIT	0,14	100		•
DYF 15-160 T TIT	160	2×2 Twill	50	50		0,66	Dynanotex HS 15/80 DLN2 15 mm.	0,66	Dynanotex HS 15/80 DLN2 15 mm. TIT	0,14	100		•
DYF 15-160 P ALU TIT	160	Plain	50	50		0,66	Dynanotex HS 15/80 DLN2 15 mm. ALU	0,66	Dynanotex HS 15/80 DLN2 15 mm. TIT	0,14	100		•

DYF 15-160 P

DYF 15-160 P ALU

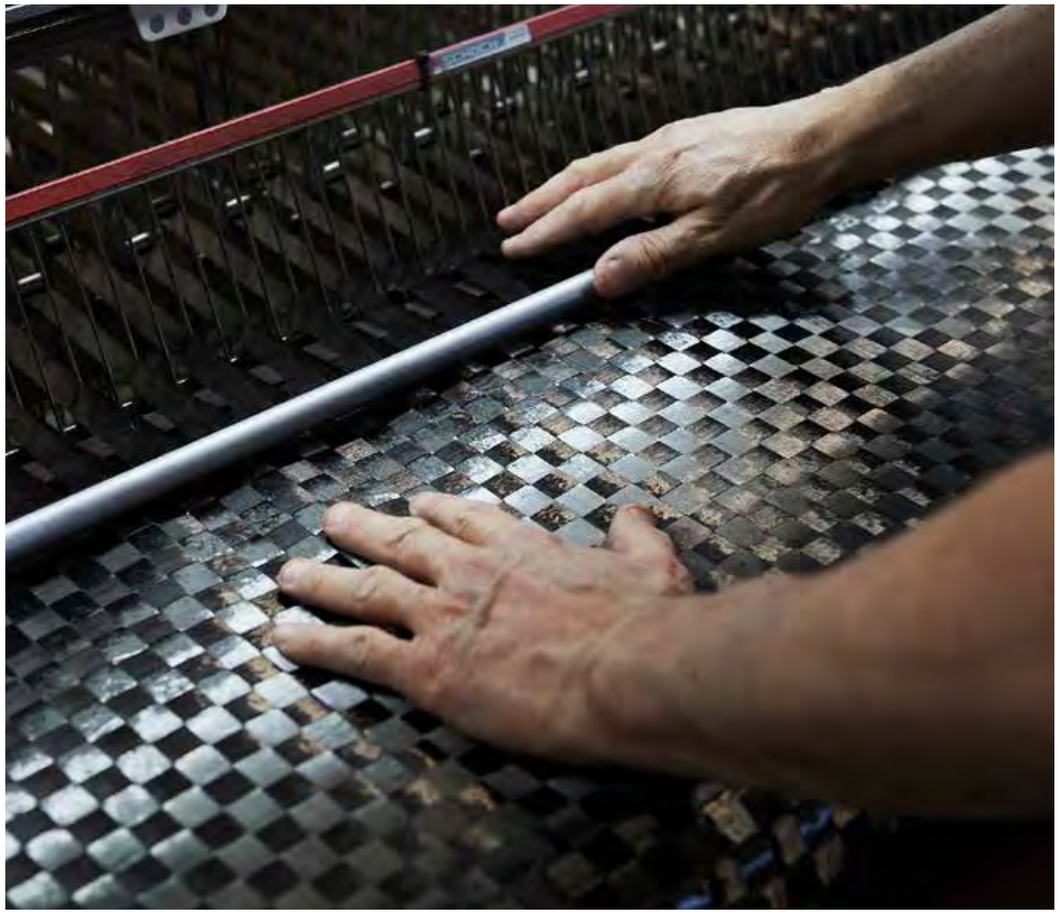
DYF 15-160PT2 ALU



DYF HM 200-25P

High Modulus – Pitch Fibers

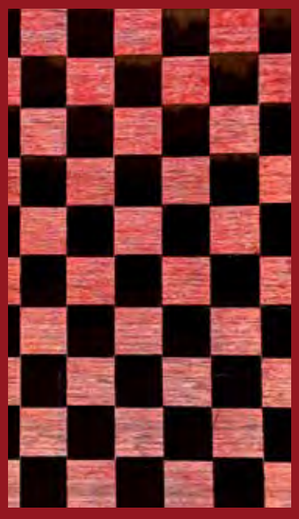
DESIGNATION	FIBER TYPE	WEIGHT	WEAVE	FIBER'S SPREAD		TEXTILE COMPOSITION				WIDTH mm	STD	UPON REQUEST
						ENDS cm	WARP FIBER QUALITY	ENDS cm	WEFT FIBER QUALITY			
DYF UHM-150/15 P	carbon UHM-16K	150	Plain	Yes		0,66	K13916 16K	0,66	K13916 16K	1000/1270	•	
DYF HSM-231/15 P	carbon UHM-16K	230	Plain	Yes		0,66	TR505 15K	0,66	K13916 16K	1000/1270	•	
DYF UHM-300/15 P	carbon UHM-16K	300	Plain	Yes		0,66	K13916 16K	0,66	K13916 16K	1000/1270		•
DYN UHM 16/150 DL N2	carbon UHM-16K	156	Dynanotex's Patented			process of spreading / Mitsubishi Pitch fiber - Dialead K13916 - 16K				1000		•



DYF Fabrics Color Edition

Different combinations for an unique result

Their new DYF Fabrics Color Edition range, one the most interesting innovations of the year, immediately attracted a remarkable interest in the composite materials market. With its extreme flexibility in dimensions and a wide choice of possible colors, the series includes all types of carbon fibers, aluminized or not, which can be woven in different combinations to obtain unique results.



Fixed Fabrics WF

We have developed unique special machines to treat any type of fabric fiber (carbon, aramid, glass, metal...), any type of weaving style (2x2 twill, plain, satin...) and any type of areal weight (from 40 g/m² up to 1500 g/m²) preventing any deformation from original textile geometry of fabric. Now we are offering to our customers several different technical solutions to cutting, to drape, to laminate and to stabilize DRY FABRICS and PREPREGS for any production's process of composite.

Improving dry fabric's stability

Fixation process by thermoplastic WEB

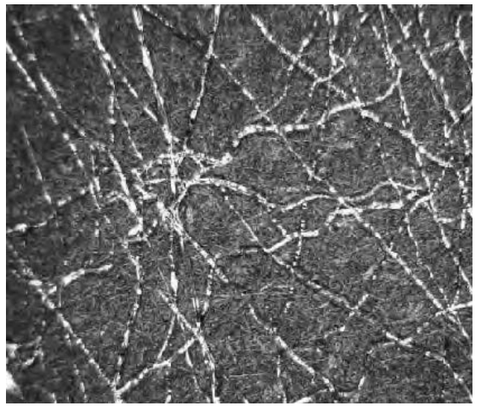
- Excellent uniformity and great weight's costancy of product.
- Very low range of areal weights (from 6 g/m² to 20 g/m²) compared with common weight of bindering technology.
- Very good drape-ability of fabric after surface treatments.
- Excellent chemical compatibility with resins systems.
- Excellent wet-ability so any resin can flow inside the fiber as a normal dry fabric.
- Possibility to re-activate the polymer by heating for pre-for-ming process (RTM).
- Very clean and very stable system for any cutting process.
- Reduced (free from fixing polymer) cover surface of fabric (dry fibers) compared to high pollution of powders used for bindering.

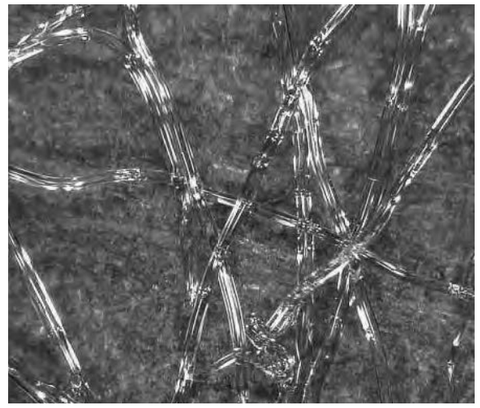
Fixing process by thermoplastic

Range of Webs

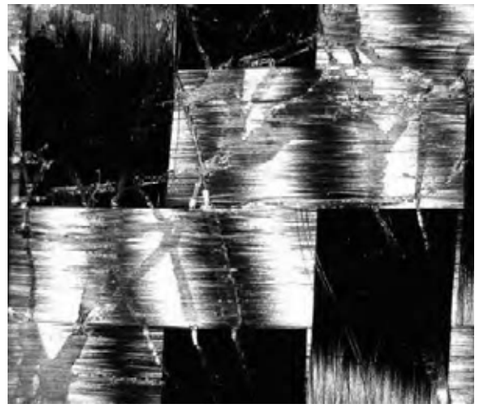
"CODE OF WEB"	NATURE OF WEB	WEIGHT	MELTING POINT	HEAT RESISTANCE
		g/m²	°C	°C
Ref. WF0	co-polyamide	3	120/130	105
Ref. WF1	co-polyamide	6	120/130	105
Ref. WF2	co-polyamide	12	120/130	105
Ref. WF3	co-polyamide	20	120/130	105

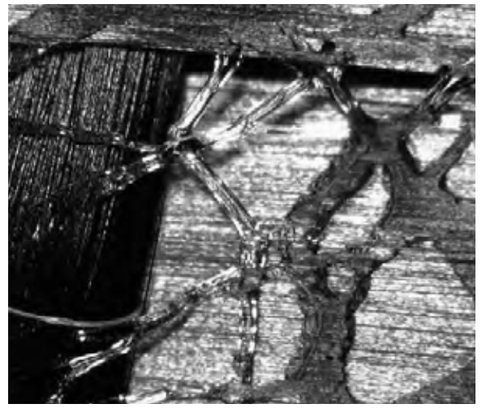
Thermoplastic WEB





3K Carbon Fabric WEB treated



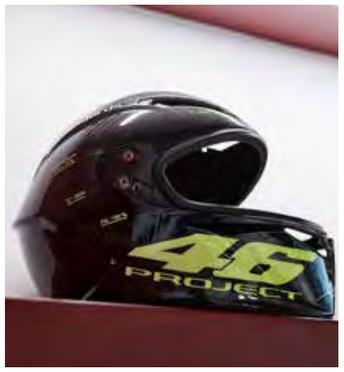


3K Carbon fabric
Ref. GG 200 T – 193 g/m2 | 2x2 Twill weave

12K Carbon fabric WEB treated

12K Carbon fabric
Ref. GG 428 T – 428 g/m2 | 2x2 Twill weave

IMP-WF
Improved Stability Prepreg System



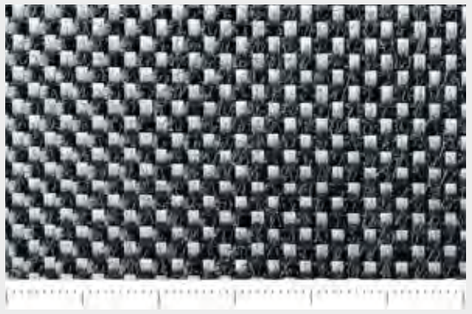
Thanks to the combination of special thermoplastic webs and dedicated prepreg systems, the new imp wf grants:

REDUCTION OF DISTORTIONS
due resin movements during curing cycles.

POROSITY REDUCTION
the web is helping the evacuation of residual air inside the laminate.

HELP DURING LAMINATION
avoiding distortion caused by handling.

EQUAL MECHANICAL PROPERTIES
so compatibility of the thermoplastic with all systems
IMP503Z – IMP503ZHT – IMP530R – IMP505L – IMP504Z.
Carbon fabric treated by IMP–WF.



GG 200P WFI

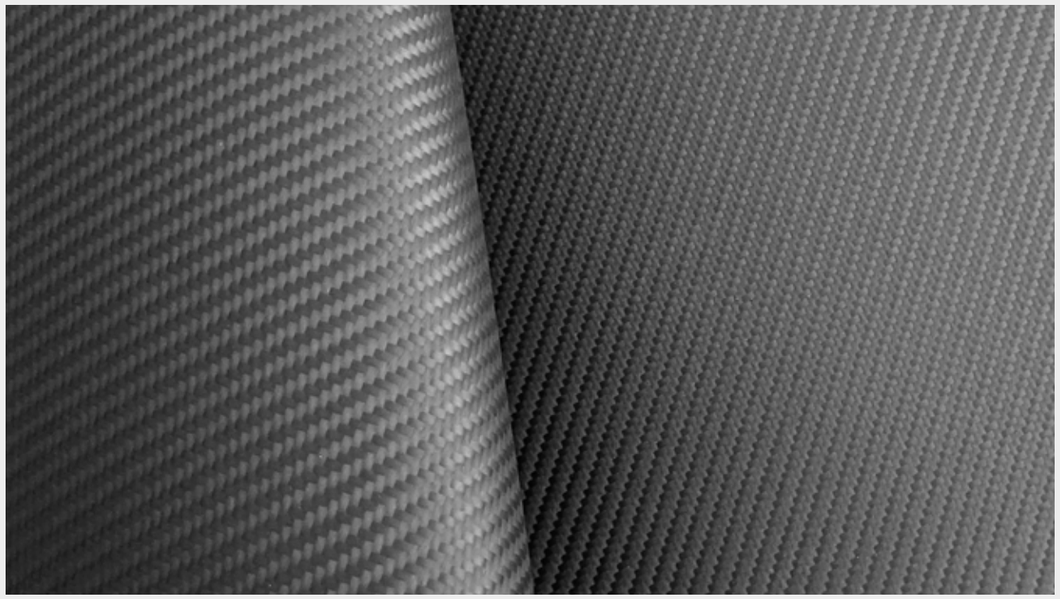
CFD ADE-FIX
IMP 373 R

ADE-FIX is a new developed product mainly dedicated to Infusion and RTM process when a very high quality of surface finishing and a perfect fabric's design is required from produced part.
ADE-FIX is a special surface high tack epoxy coating (IMP 373 R) especially developed that may offer a perfect adhesion of thermofixed WF dry fabrics to any mould.
IMP 373 is fully compatible to most of the common epoxy matrix.

ADE-FIX is easy to be laminated over any surface; due a very good self adhesion to mould it help to reduce fabric's deformation and problems caused injecting resin at high pressure.
ADE-FIX is offering a unlimited self-life of product reducing difficulties of storing.

ADE-FIX can be pre-cut and laminate in a mold as a common pre-preg.

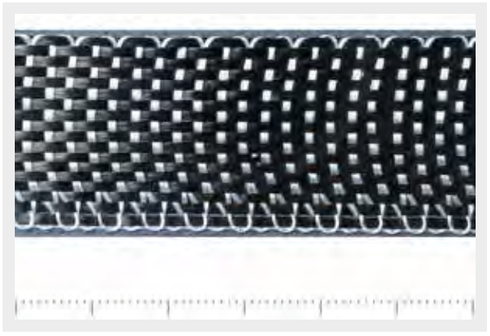
ADE-FIX is applicable to any weave of fabrics and to the families of fiber (carbon, aramide, glass...).



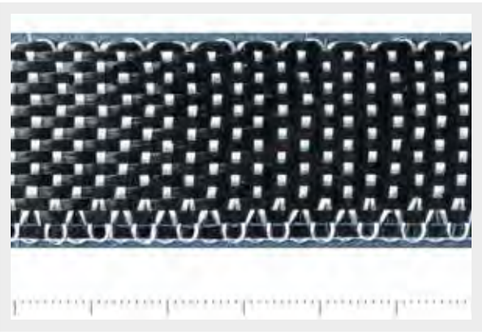
Tapes

HS Carbon Unidirectional Tapes

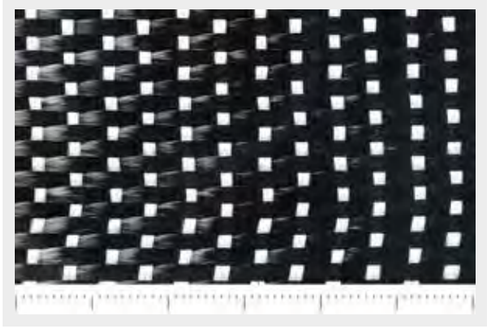
REFERENCE	WEIGHT g/m²	WEAVING STYLE	WEIGHT RATE			TEXTILE COMPOSITION				STD. WIDTH cm	THICK-NESS mm	STD	UPON REQUEST
			WARP %	WEFT %		ENDS cm	WARP FIBER QUALITY	ENDS cm	WEFT FIBER QUALITY				
TCU 125	126	Plain	78%	22%		4,9	3K carbon fibre	4 × 2	EC 9 34 glass fibre	1,5 - 20	0,12	•	
TCU 175	170	Plain	84%	16%		7,0	3K carbon fibre	4 × 2	EC 9 34 glass fibre	1,5 - 20	0,18	•	
TCU 200	200	Plain	92%	8%		5,0	6K carbon fibre	3,5 × 2	EC 9 34 glass fibre	1,5 - 20	0,18	•	
TCU 260	270	Plain	90%	10%		5,8	6K carbon fibre	4 × 2	EC 9 34 glass fibre	1,5 - 20	0,25	•	
TCU 320	320	Plain	92%	8%		7,5	6K carbon fibre	4 × 2	EC 9 34 glass fibre	1,5 - 20	0,31	•	
TCU 330	330	Plain	92%	8%		3,7	12K carbon fibre	4 × 2	EC 9 68 glass fibre	1,5 - 20	0,32	•	
TCU 420	430	Plain	94%	6%		5,0	12K carbon fibre	4 × 2	EC 9 68 glass fibre	1,5 - 20	0,40	•	
TCU 520	525	Plain	95%	5%		6,2	12K carbon fibre	2 × 2	EC 9 68 glass fibre	1,5 - 20	0,50	•	
TCU 601	622	Plain	96%	4%		3,6	24K carbon fibre	1,2 × 2	EC 9 136 glass fibre	1,5 - 20	0,60		•
TCU 801	835	Plain	96%	4%		2,5	48K carbon fibre	1,2 × 2	EC 9 136 glass fibre	1,5 - 20	0,81	•	
TCU 1000	1020	Plain	97%	3%		3,1	48K carbon fibre	1,2 × 2	EC 9 136 glass fibre	1,5 - 20	1,00		•
TCU 1200	1200	Plain	98%	2%		3,8	48K carbon fibre	1,2 × 2	EC 9 136 glass fibre	1,5 - 20	1,20		•



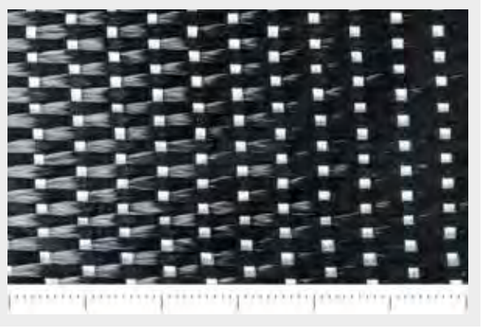
TCU 125



TCU 260



TCU 420



TCU 520

HM Carbon Unidirectional Tapes

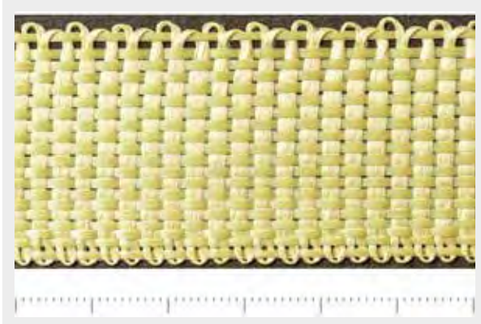
REFERENCE	WEIGHT g/m²	WEAVING STYLE	WEIGHT RATE			TEXTILE COMPOSITION				STD. WIDTH cm	THICK-NESS mm	STD	UPON RE-QUEST
			WARP %	WEFT %		ENDS cm	WARP FIBER QUALITY	ENDS cm	WEFT FIBER QUALITY				
HM Carbon Fiber													
TCU 215 M/40J	220	Plain	89%	11%		2,7	12K M/40 carbon fibre	3,5 × 2	EC 9 34 glass fibre	1,5–20	0,20		•
TCU 300 M/40J	325	Plain	92%	8%		4,1	12K M/40 carbon fibre	2,0 × 2	EC 9 34 glass fibre	1,5–20	0,31		•
SHM Carbon Fiber													
TCU 312 Pitch	328	Plain	90%	10%		3,3	XN 80	2,5 X 2	EC 9 68 glass fibre	5,0-20	0,33	•	

Glass and Aramide Unidirectional Tapes

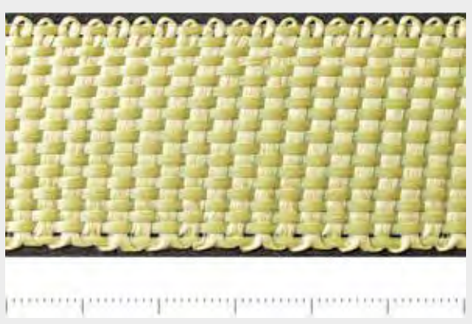
REFERENCE	WEIGHT g/m²	WEAVING STYLE	WEIGHT RATE			TEXTILE COMPOSITION				STD. WIDTH cm	THICK-NESS mm	STD	UPON RE-QUEST
			WARP %	WEFT %		ENDS cm	WARP FIBER QUALITY	ENDS cm	WEFT FIBER QUALITY				
Twaron Aramide Fiber													
TKU 150	150	Plain	91%	9%		5,6	Twaron aramide 2420 dtex	3 × 2	Twaron aramide 220 tex	1,5–20	0,18		•
TKU 200	200	Plain	93%	7%		5,8	Twaron aramide 3220 dtex	3 × 2	Twaron aramide 220 tex	1,5–20	0,23		•
Glass Roving Fiber													
TVU 300	315	Plain	91%	9%		4,8	Glass roving 600 tex	1,2 X 2	EC 9 68 tex	1,5-20	0,31		•
TVU 400	410	Plain	93%	7%		3,2	Glass roving 1200 tex	1,2 X 2	EC 9 68 tex	1,5-20	0,40	•	
TVU 500	534	Plain	90%	10%		2,0	Glass roving 2400 tex	1,2 X 2	EC 9 136 tex	1,5-20	0,46		•
TVU 600	605	Plain	91%	9%		4,6	Glass roving 1200 tex	1,2 X 2	EC 9 136 tex	1,5-20	0,50	•	
TVU 800	800	Plain	93%	7%		3,1	Glass roving 2400 tex	1,2 X 2	EC 9 136 tex	1,5-20	0,65	•	
TVU 1000	1015	Plain	95%	5%		8,0	Glass roving 1200 tex	1,2 X 2	EC 9 204 tex	1,5-20	0,85	•	
TVU 1200	1260	Plain	96%	4%		5,0	Glass roving 2400 tex	1,2 X 2	EC 9 204 tex				•
TVU 1600													•

Balanced Tapes

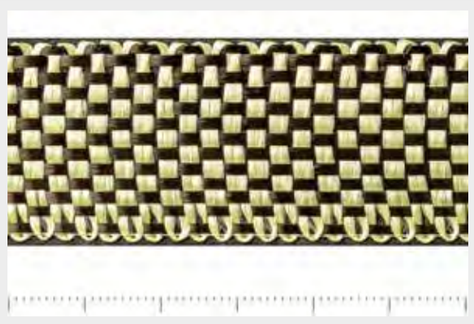
REFERENCE	WEIGHT g/m²	WEAVING STYLE	WEIGHT RATE			TEXTILE COMPOSITION				STD. WIDTH cm	THICK-NESS mm	STD	UPON REQUEST
			WARP %	WEFT %		ENDS cm	WARP FIBER QUALITY	ENDS cm	WEFT FIBER QUALITY				
Carbon Fiber													
TCB 220	220	Plain	50%	50%		2,5 × 2	3K carbon fibre	5,0	3K carbon fibre	2–20	0,20	•	
TCB 300	305	Plain	53%	47%		2,0 × 2	6K carbon fibre	3,6	6K carbon fibre	5–20	0,31	•	
TCB 400	408	Plain	49%	51%		1,25×2	12K carbon fibre	2,6	12K carbon fibre	5–20	0,40	•	
Twaron Aramide Fiber													
TKB 170	170	Plain	49%	51%		3,25 × 2	Twaron aramide 121 tex	6,8	Twaron aramide 121 tex	1,5–20	0,22	•	
TKB 220	225	Plain	50%	50%		3,25 × 2	Twaron aramide 161 tex	6,6	Twaron aramide 161 tex	1,5–20	0,27	•	
E-Glass Fiber													
TVB 160	100	Plain	45%	55%		13,0 × 2	EC9 22 tex	31,0	EC9 22 tex	1,5–20	0,22	•	
TVB 220	200	Plain	50%	50%		8,0 × 2	EC9 68 tex	8,0	EC9 136 tex	1,5–20	0,24	•	
Carbon/Aramide Fiber													
TCK 165	163	Plain	55%	45%		3 × 2	3K carbon fibre	4,5	Twaron aramide 121 tex	1,5–20	0,18		•
TCK 175	175	Plain	56%	44%		2,4 × 2	3K carbon fibre	4,8	Twaron aramide 161 tex	1,5–20	0,19		•
TCK 190	190	Plain	53%	47%		3,4 × 2	3K carbon fibre	5,0	Twaron aramide 161 tex	1,5–20	0,22	•	



TKB 170



TKB 220



TCK 175

Hybrid Fabrics

Carbon fiber / Twaron aramide

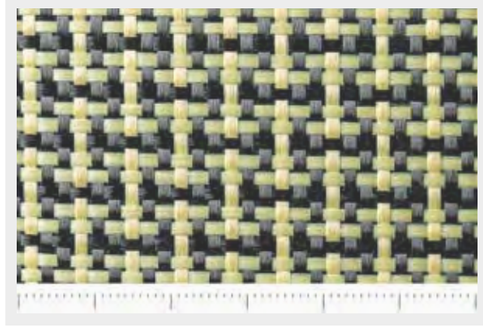
REFERENCE	WEIGHT g/m²	WEAVING STYLE	WEIGHT RATE			TEXTILE COMPOSITION				STD. WIDTH cm	STD	UPON REQUEST
			WARP %	WEFT %		ENDS cm	WARP FIBER QUALITY	ENDS cm	WEFT FIBER QUALITY			
GK 161 P	167	Plain	75c/25a	37c/63a		5,0=3,34+1,67	Carbon 3K + aramide 1210	4,2=1,4+2,8	Carbon 3K + aramide 1210	100		•
GK 165 P	165	Plain	75c/25a	45c/55a		4,6=3,06+1,53	Carbon 3K + aramide 1610	4,6=1,53+3,06	Carbon 3K + aramide 1610	120	•	
GK 170 P	170	Plain	76c/24a	44c/56a		5,0=3,34+1,67	Carbon 3K + aramide 1210	5,0=1,67+3,34	Carbon 3K + aramide 1210	120	•	
GK 180 P	180	Plain	38c/12a	38c/12a		5,0=3,34+1,67	Carbon 3K + aramide 1210	5,0=3,34+1,67	Carbon 3K + aramide 1210	120		•
GK 210 T	210	2×2 Twill	61c/39a	61c/39a		6,3=3,15+3,15	Carbon 3K + aramide 1210	6,3=3,15+3,15	Carbon 3K + aramide 1210	120	•	
GK 210 H	210	4H Satin	61c/39a	61c/39a		6,3=3,15+3,15	Carbon 3K + aramide 1210	6,3=3,15+3,15	Carbon 3K + aramide 1210	120		•

Twaron aramide / Carbon fiber

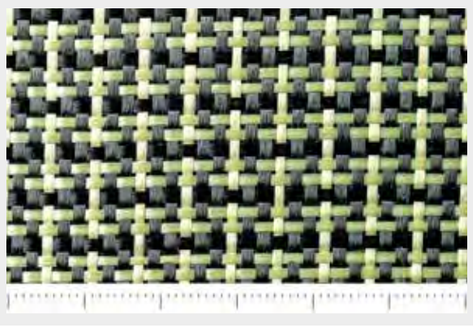
REFERENCE	WEIGHT g/m²	WEAVING STYLE	WEIGHT RATE			TEXTILE COMPOSITION				STD. WIDTH cm	STD	UPON REQUEST
			WARP %	WEFT %		ENDS cm	WARP FIBER QUALITY	ENDS cm	WEFT FIBER QUALITY			
KG 200 P	200	Plain	50	50		5,42=5,00+0,42	Aramide 1210 + Carbon 12K	5,42=5,00+0,42	Aramide 1210 + Carbon 12K	120		•

Carbon fiber / Black Polyester

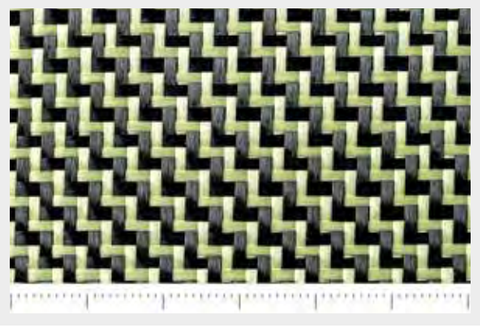
REFERENCE	AERAL WEIGHT g/m²	WEAVING STYLE	WEIGHT RATE			TEXTILE COMPOSITION				STD. WIDTH cm	STD	UPON REQUEST
			WARP %	WEFT %		ENDS cm	WARP FIBER QUALITY	ENDS cm	WEFT FIBER QUALITY			
GD 200 P/T Black	200	Plain/Twill	44	56		4,8	3K carbon 200 tex	6,0	HM Black Poly 1100 dtex	120		•



GK 165 P



GK 170 P



GK 210 T

GD 200 P-T BLACK

Twaron aramid / Black Polyester

REFERENCE	WEIGHT g/m²	WEAVING STYLE	WEIGHT RATE			TEXTILE COMPOSITION				STD. WIDTH cm	STD	UPON REQUEST
			WARP %	WEFT %		ENDS cm	WARP FIBER QUALITY	ENDS cm	WEFT FIBER QUALITY			
DK 170 P	170	Plain	50	50		5,0=3,34+1,67	HM Poly 1670 + aramide 1210	5,0=1,67+3,34	HM Poly 1670 + aramide 1210	120	•	

Glass fiber / aramid fiber

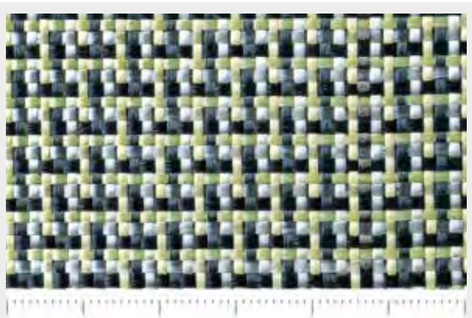
REFERENCE	WEIGHT g/m²	WEAVING STYLE	WEIGHT RATE			TEXTILE COMPOSITION				STD. WIDTH cm	STD	UPON REQUEST
			WARP %	WEFT %		ENDS cm	WARP FIBER QUALITY	ENDS cm	WEFT FIBER QUALITY			
VK 250 T	250	2×2 Twill	77v/23a	77v/23a		6,9=4,6+2,3	Roving 204 + aramide 1210	6,9=4,6+2,3	Roving 204 + aramide 1210	120	•	
VK 251 T	250	Twill	76	24		6,2	Glass roving 300 tex	5,0	Aramide 1210 dtex	120		•
VK 251 P	250	Plain	76	24		5,0	Glass roving 300 tex	6,2	Aramide 1210 dtex	120		•
VK 390 T	390	2×2 Twill	70v/30a	70v/30a		5,0	Roving 600 + aramide 2420	4,5=2,25+2,25	Roving 600 + aramide 2420	127	•	
VK 390 T +Mat225	640	2×2 Twill	70v/30a	70v/30a		4,6=2,3+2,3	Roving 600 + aramide 2420	4,5=2,25+2,25	Roving 600 + aramide 2420	127	•	

Carbon fiber / Coloured Polyester fiber: red, green, blue

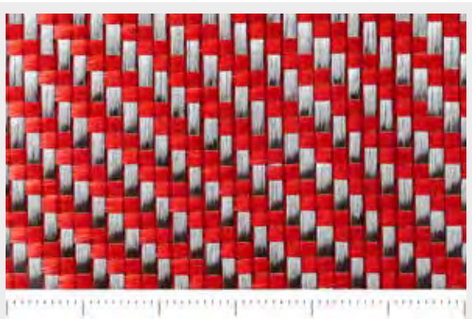
REFERENCE	WEIGHT g/m²	WEAVING STYLE	WEIGHT RATE			TEXTILE COMPOSITION				STD. WIDTH cm	STD	UPON REQUEST
			WARP %	WEFT %		ENDS cm	WARP FIBER QUALITY	ENDS cm	WEFT FIBER QUALITY			
GDc 210 T/P Color	228	2×2 Twill / Plain	65	35		4,8	3K Carbon fiber 200 tex	12	HM Coloured Poly 1100 dtex	100	•	
GGDc 260 T Color	260	2×2 Twill	55	45		7,0	3K Carbon fiber 200 tex	7,55=3,75+3,8	Carbon 3K + HM Coloured Poly 110	100-127	•	

Special Products

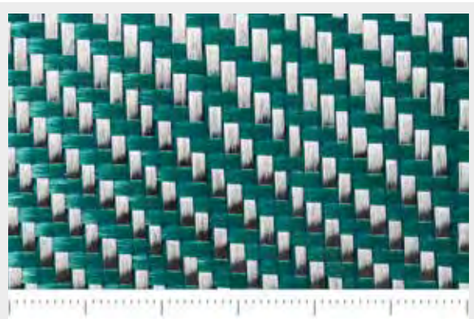
REFERENCE	WEIGHT g/m²	WEAVING STYLE	WEIGHT RATE			TEXTILE COMPOSITION				STD. WIDTH cm	STD	UPON REQUEST
			WARP %	WEFT %		ENDS cm	WARP FIBER QUALITY	ENDS cm	WEFT FIBER QUALITY			
DRAC 250	250	Plain	50	50		6,0 = 2+2+1,84+0,15	glass-aram.-poly-carb 300 - 1610 - 1670 - 3K	5,4=1,8+1,8+1,8	glass-aram.-poly 300 - 1610 - 1670	100	•	



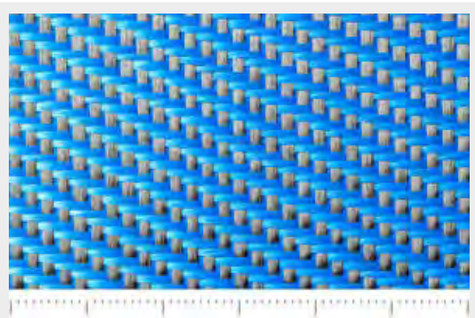
DRAC 250



GDC 210 T RED



GDC 210 T GREEN



GDC 210 T BLUE

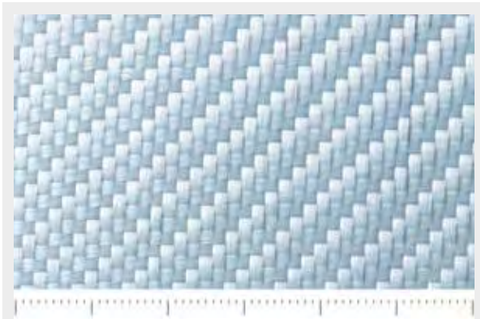
HM Polyester Fabrics

Neutral polyester

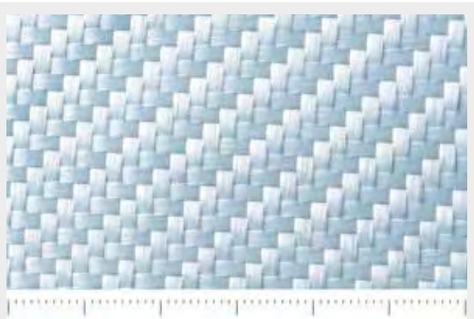
REFERENCE	WEIGHT g/m²	WEAVING STYLE	WEIGHT RATE			TEXTILE COMPOSITION				STD. WIDTH cm	STD	UPON REQUEST
			WARP %	WEFT %		ENDS cm	WARP FIBER QUALITY	ENDS cm	WEFT FIBER QUALITY			
DD 200 P	200	Plain	50%	50%		4,6	HM Polyester Diolen 2200	4,6	HM Polyester Diolen 2200	100		•
DD 200 T	200	2×2 Twill	50%	50%		4,6	HM Polyester Diolen 2200	4,6	HM Polyester Diolen 2200	100	•	
DD 270 P	264	Plain	50%	50%		6,0	HM Polyester Diolen 2200	6,0	HM Polyester Diolen 2200	100	•	
DD 270 T	264	2×2 Twill	50%	50%		6,0	HM Polyester Diolen 2200	6,0	HM Polyester Diolen 2200	100	•	
DD 440 T	422	2×2 Twill	50%	50%		4,8	HM Polyester Diolen 4400	4,8	HM Polyester Diolen 4400	100	•	
DD 440 P	422	Plain	50%	50%		4,8	HM Polyester Diolen 4400	4,8	HM Polyester Diolen 4400	100		•

Colored Polyester fabric

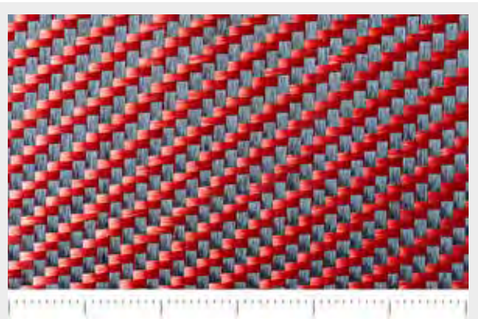
REFERENCE	WEIGHT g/m²	WEAVING STYLE	WEIGHT RATE			TEXTILE COMPOSITION				STD. WIDTH cm	STD	UPON REQUEST
			WARP %	WEFT %		ENDS cm	WARP FIBER QUALITY	ENDS cm	WEFT FIBER QUALITY			
DDb 200 P/T Black	200	Plain/Twill	50%	50%		6,0	HM Black Poly Diolen 1670	6,0	HM Black Poly Diolen 1670	120	•	
DDc 200 P/T Red	200	Plain/Twill	60%	40%		6,0	HM Black Poly Diolen 1670	9,0	HM Red Poly Diolen 1100	120	•	
DDc 200 P/T Blue	200	Plain/Twill	60%	40%		6,0	HM Black Poly Diolen 1670	9,0	HM Blue Poly Diolen 1100	120	•	
DDc 200 P/T Yellow	200	Plain/Twill	60%	40%		6,0	HM Black Poly Diolen 1670	9,0	HM Yellow Poly Diolen 1100	120		•
DDc 200 P/T Green	200	Plain/Twill	60%	40%		6,0	HM Black Poly Diolen 1670	9,0	HM Green Poly Diolen 1100	120		•



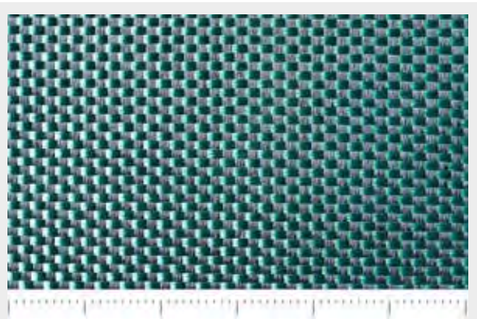
DD 270 T



DD 440 T



DDC 200P RED

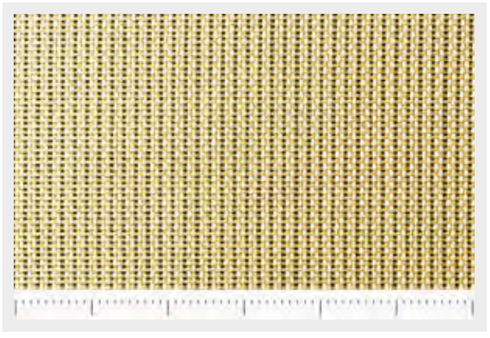


DDC 200P GREEN

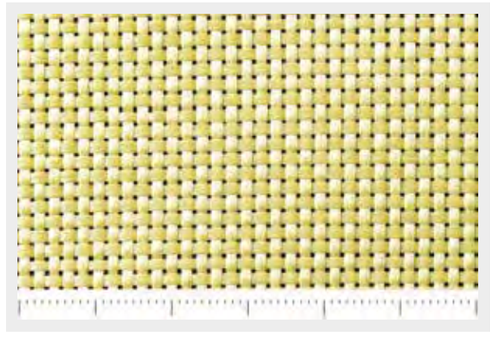
Aramid Fabrics

Aramid Balanced Fabrics

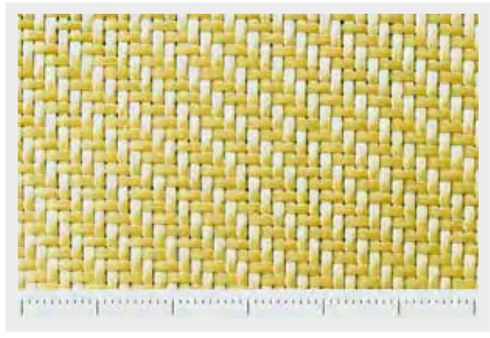
REFERENCE	WEIGHT g/m²	WEAVING STYLE	WEIGHT RATE			TEXTILE COMPOSITION				STD. WIDTH cm	THICKNESS mm	STD	UPON REQUEST
			WARP %	WEFT %		ENDS cm	WARP FIBER QUALITY	ENDS cm	WEFT FIBER QUALITY				
STYLE 120	60	Plain	50%	50%		13,5	Technora T240 220 dtex	13,4	Technora T240 220 dtex	120	0,07		•
KK 140 P	140	Plain	50%	50%		5,4	Twaron 2200 1210 dtex	5,4	Twaron 2200 1210 dtex	120	0,18	•	
STYLE 281	170	Plain	50%	50%		6,54	Twaron 2200 1210 dtex	6,6	Twaron 2200 1210 dtex	100/120	0,22	•	
STYLE 285	170	4H Satin	50%	50%		6,54	Twaron 2200 1210 dtex	6,7	Twaron 2200 1210 dtex	100/120	0,22	•	
KK 170 T	170	2×2 Twill	50%	50%		6,54	Twaron 2200 1210 dtex	6,6	Twaron 2200 1210 dtex	100/120	0,22	•	
KK 170 F	170	Fish	50%	50%		6,54	Twaron 2200 1210 dtex	6,6	Twaron 2200 1210 dtex	120	0,22	•	
KK 220 P	220	Plain	50%	50%		6,4	Twaron 2200 1610 dtex	6,4	Twaron 2200 1610 dtex	100/120	0,25	•	
KK 220 T	220	2×2 Twill	50%	50%		6,4	Twaron 2200 1610 dtex	6,4	Twaron 2200 1610 dtex	100/120	0,25	•	



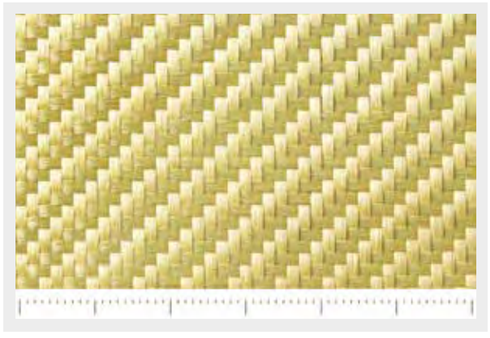
STYLE 120



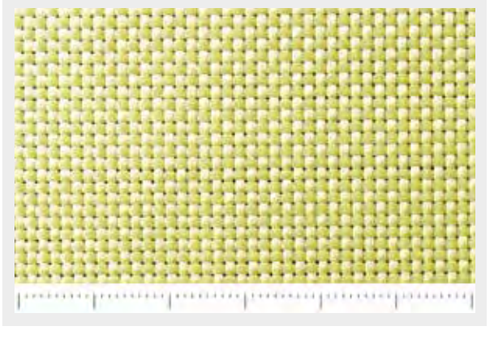
KK 140 P



KK 170 T

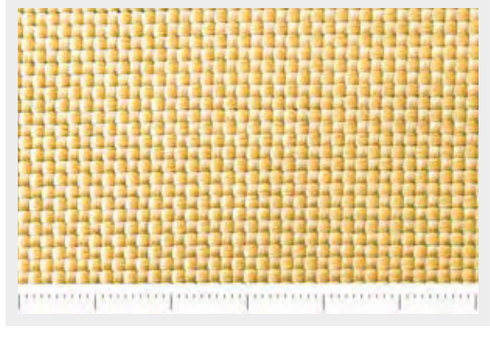


KK 220 T

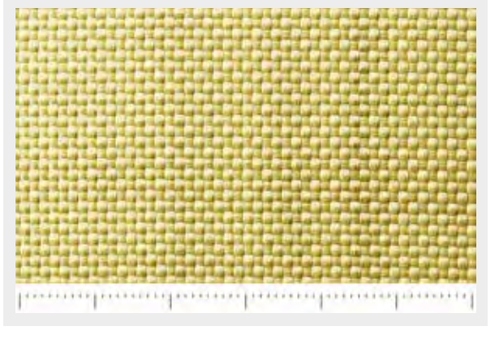


STYLE 281

STYLE 285



KK 220 P

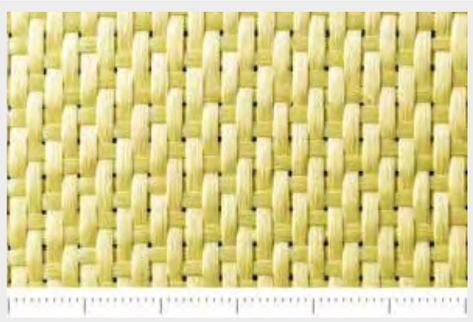


KK 260 P

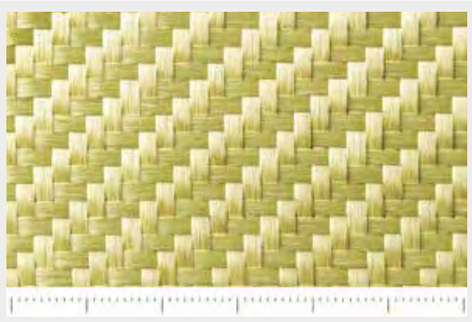
Aramid Fabrics

Aramid Balanced Fabrics

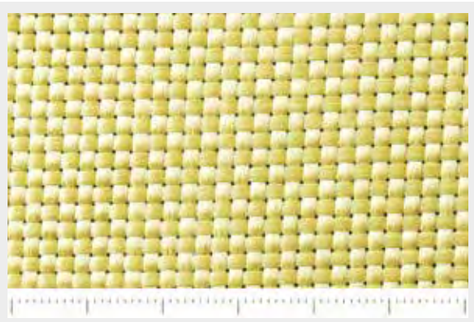
REFERENCE	WEIGHT g/m²	WEAVING STYLE	WEIGHT RATE			TEXTILE COMPOSITION				STD. WIDTH cm	THICKNESS mm	STD	UPON REQUEST
			WARP %	WEFT %		ENDS cm	WARP FIBER QUALITY	ENDS cm	WEFT FIBER QUALITY				
KK 260 T	260	2×2 Twill	50%	50%		7,8	Twaron 2200 1610 dtex	7,0	Twaron 2200 1610 dtex	120	0,28		•
KK 260 P	260	Plain	50%	50%		7,8	Twaron 2200 1610 dtex	7,0	Twaron 2200 1610 dtex	150	0,28		•
KK 300 P	300	Plain	50%	50%		4,4	Twaron 2200 3420 dtex	4,4	Twaron 2200 3420 dtex	100	0,35	•	
KK 300 T	300	2×2 Twill	50%	50%		4,4	Twaron 2200 3420 dtex	4,4	Twaron 2200 3420 dtex	100	0,35	•	
KK 300 H	300	4H Satin	50%	50%		4,4	Twaron 2200 3420 dtex	4,4	Twaron 2200 3420 dtex	100	0,35	•	
KK 460 P	460	Plain	51%	49%		6,4	Twaron 2200 3420 dtex	6,5	Twaron 2200 3420 dtex	120	0,60	•	



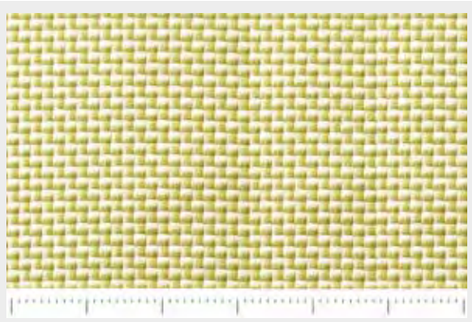
KK 300 H5



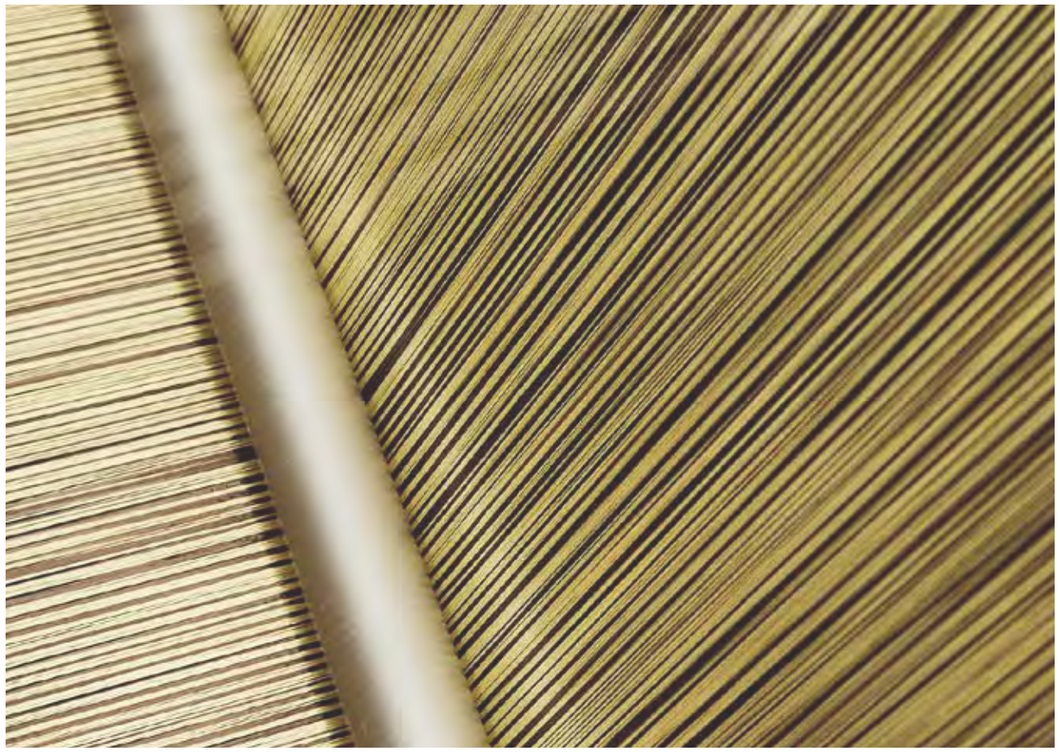
KK 300 T



KK 300 P



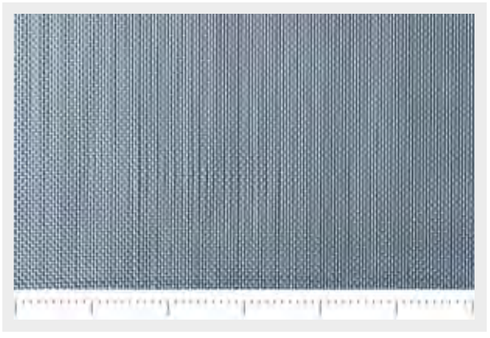
KK 460 P



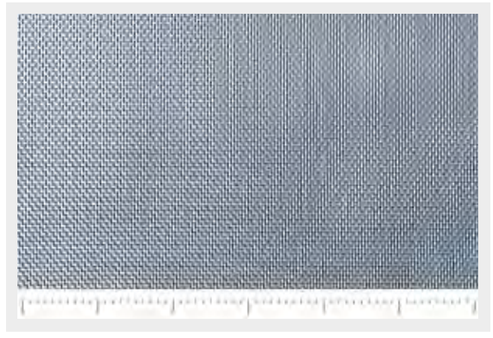
Glass Fabrics

Textile Glass Fabrics

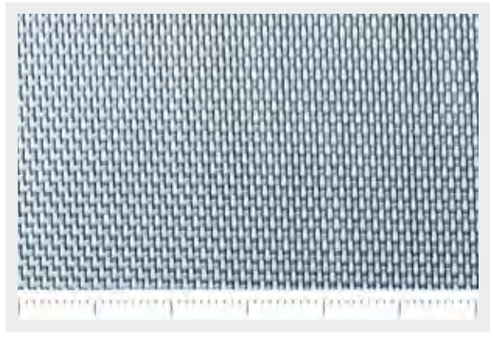
REFERENCE	AERAL WEIGHT g/m²	WEAVING STYLE	WEIGHT RATE			TEXTILE COMPOSITION				STD. WIDTH cm	THICKNESS mm	STD	UPON REQUEST
			WARP %	WEFT %		ENDS cm	WARP FIBER QUALITY	ENDS cm	WEFT FIBER QUALITY				
106	25	Plain	50%	50%		22,0	Glass EC5 5,5 tex	22,0	Glass EC5 5,5 tex	100	0,030	•	
108	47	Plain	52%	48%		24,0	Glass EC5 11 tex	18,5	Glass EC5 11 tex	100	0,050	•	
2112	69	Plain	50%	50%		16,0	Glass EC7 22 tex	15,0	Glass EC7 22 tex	95,5	0,075	•	
VR 27	80	Plain	49%	51%		11,8	Glass EC9 34 tex	12,0	Glass EC9 34 tex	100	0,090	•	
2116	104	Plain	51%	49%		24,0	Glass EC7 22 tex	23,0	Glass EC7 22 tex	95,5	0,100	•	
VR 29	130	Plain	57%	43%		12,0	Glass EC9 68 tex	7,0	Glass EC9 68 tex	100	0,130	•	
VR 46	162	2×2 Twill	49%	51%		11,8	Glass EC9 68 tex	12,0	Glass EC9 68 tex	100	0,160	•	
7630	163	Plain	49%	51%		12,0	Glass EC9 68 tex	11,5	Glass EC9 68 tex	100	0,165	•	
VR 192	194	2×2 Twill	50%	50%		14,0	Glass EC9 68 tex	14,0	Glass EC9 68 tex	120	0,200	•	



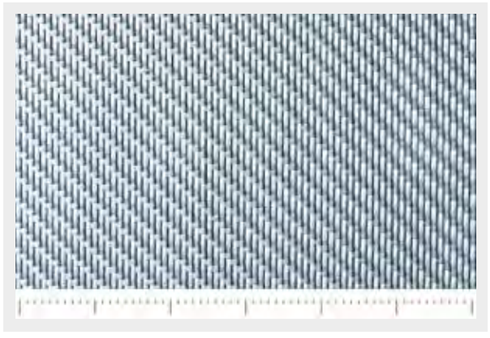
106



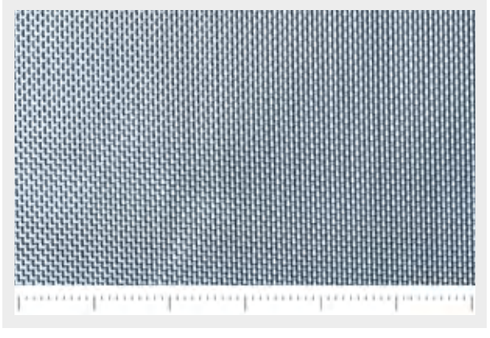
108



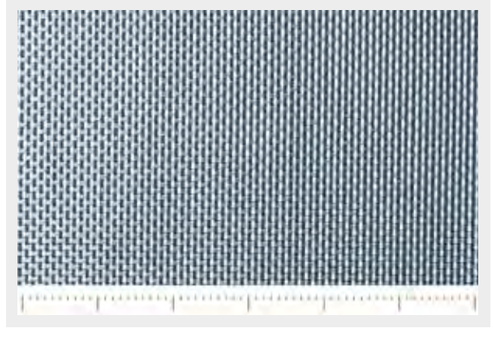
VR 29



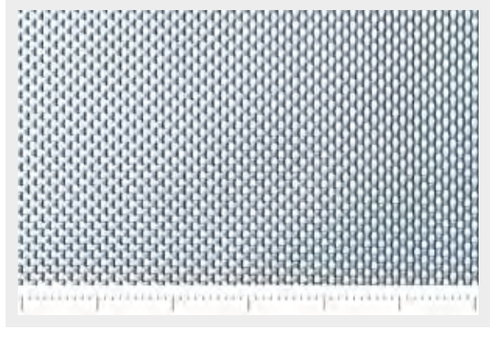
VR 46



2112



VR 27



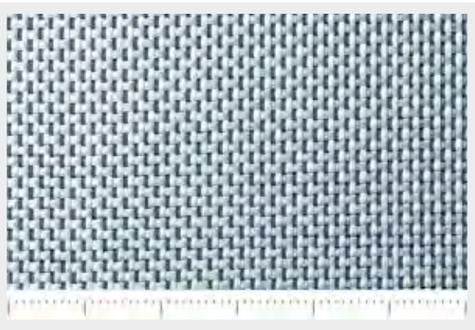
7630

VR 192

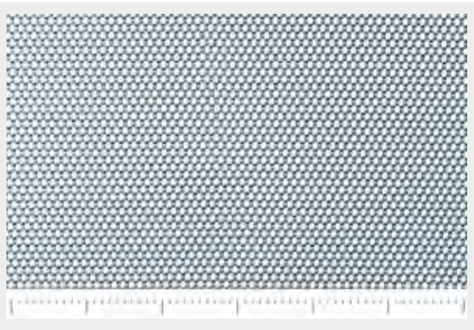
Glass Fabrics

Textile Glass Fabrics

REFERENCE	WEIGHT g/m²	WEAVING STYLE	WEIGHT RATE			TEXTILE COMPOSITION				STD. WIDTH cm	THICKNESS mm	STD	UPON REQUEST
			WARP %	WEFT %		ENDS cm	WARP FIBER QUALITY	ENDS cm	WEFT FIBER QUALITY				
VR 45	200	Plain	50%	50%		7,3	Glass EC9 136 tex	7,3	Glass EC9 136 tex	100	0,20	•	
7628	203	Plain	59%	41%		17,6	Glass EC9 68 tex	12,0	Glass EC9 68 tex	127	0,20	•	
VR 31	260	Plain	51%	49%		6,0	Glass EC9 68×3 tex	6,5	Glass EC9 68×3 tex	100	0,26	•	
VR 48	290	2×2 Twill	49%	51%		7,0	Glass 3xEC9 68 tex	7,0	Glass EC9 204 tex	100	0,29	•	
VR 51	290	Plain	49%	51%		7,0	Glass 3xEC9 68 tex	7,0	Glass EC9 204 tex	100	0,29	•	
VR 181	300	8H Satin	51%	49%		22,0	Glass EC9 68 tex	21,4	Glass EC9 68 tex	100	0,30	•	
VR 391	390	2×2 Twill	47%	53%		6,0	Glass EC 5xEC9 68 tex	6,7	Glass EC9 272 tex	125	0,39	•	
VR 34	305	4M Satin	88%	12%		19,2	Glass EC9 136 tex	11,0	Glass EC9 34 tex	100	0,44	•	
1031	315	4H Satin	88%	12%		19,5	Glass EC9 136 tex	11,0	Glass EC9 34 tex	100	0,24	•	
VR33	190	4H Satin	77%	33%		22,0	Glass EC9 68 tex	11,0	Glass EC9 34 tex	100	0,10	•	
1017	430	Plain	90%	10%		5,6×5	Glass EC9 136 tex	6,3	Glass EC9 68 tex	100	0,44	•	

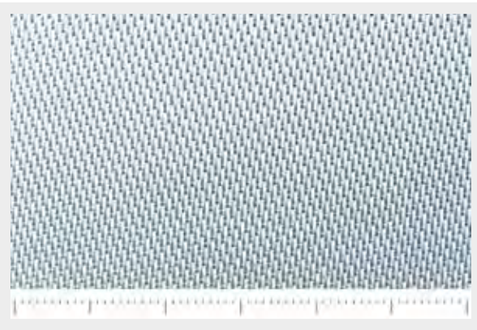


VR 45

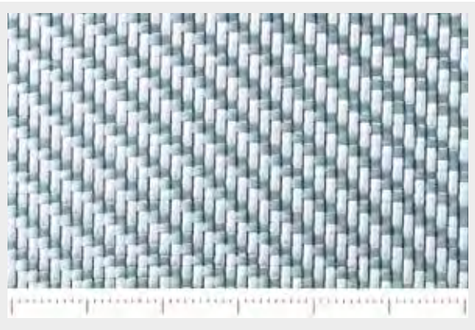


7628

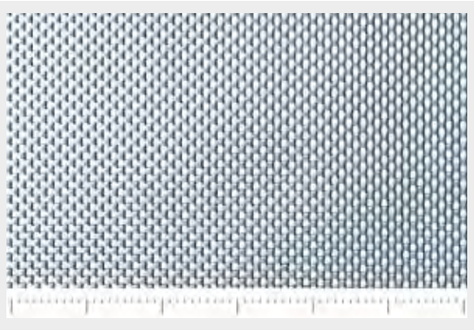
VR 51



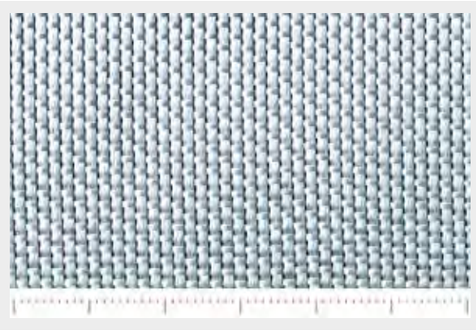
VR 181



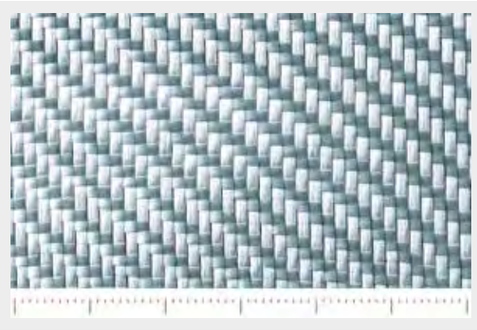
VR 48



7630



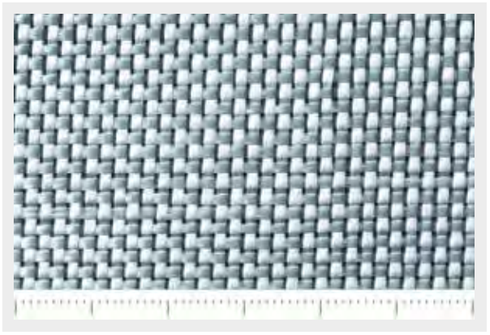
VR 434



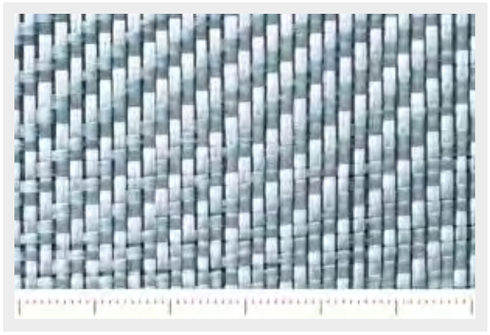
VR 391

Balanced Glass Roving Fabrics

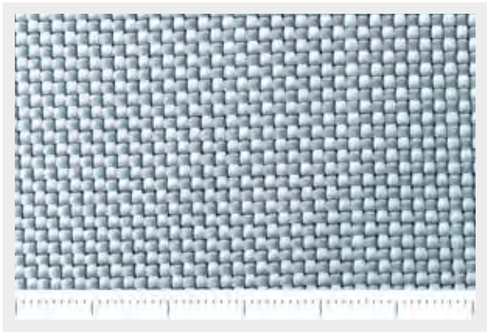
REFERENCE	WEIGHT g/m²	WEAVING STYLE	WEIGHT RATE			TEXTILE COMPOSITION				STD. WIDTH cm	THICK-NESS mm	STD	UPON RE-QUEST
			WARP %	WEFT %		ENDS cm	WARP FIBER QUALITY	ENDS cm	WEFT FIBER QUALITY				
VV 320 P	320	Plain	50%	50%		5,2	Glass roving 300 tex	5,3	Glass roving 300 tex	100/120	0,3	•	
VV 320 T	320	2×2 Twill	50%	50%		5,2	Glass roving 300 tex	5,3	Glass roving 300 tex	100/120	0,3	•	
VV 350 P	350	Plain	50%	50%		5,7	Glass roving 300 tex	5,8	Glass roving 300 tex	100/120	0,32	•	
VV 350 T	350	2×2 Twill	50%	50%		5,7	Glass roving 300 tex	5,8	Glass roving 300 tex	100/120	0,32	•	
VV 380 P	375	Plain	50%	50%		6,2	Glass roving 300 tex	6,3	Glass roving 300 tex	100/120	0,32	•	
VV 380 T	375	2×2 Twill	50%	50%		6,2	Glass roving 300 tex	6,3	Glass roving 300 tex	100/120	0,35	•	
VV 380 F	375	FISH	50%	50%		6,2	Glass roving 300 tex	6,3	Glass roving 300 tex	100/119	0,35	•	
VV 380 FC2	372	FISH	50%	50%		6,2	Glass roving + 3K carbon	6,2	Glass roving 300 tex	100/119	0,35	•	
VV 670	666	4H Satin	50%	50%		5,6	Glass roving 600 tex	5,5	Glass roving 600 tex	100	0,6	•	
VV 770	768	4H Satin	48%	52%		3,1	Glass roving 1200 tex	6,2	Glass roving 1200 tex	-	-	•	-



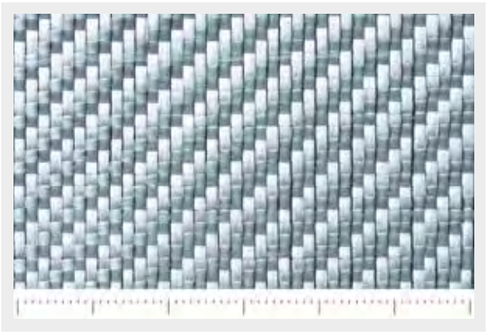
VV 320 P



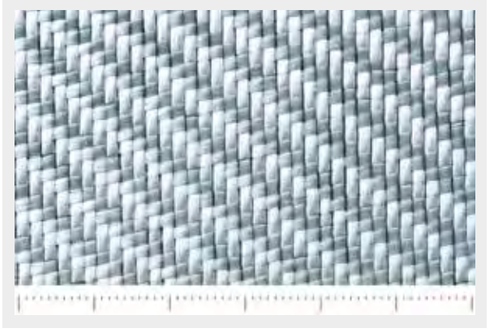
VV 320 T



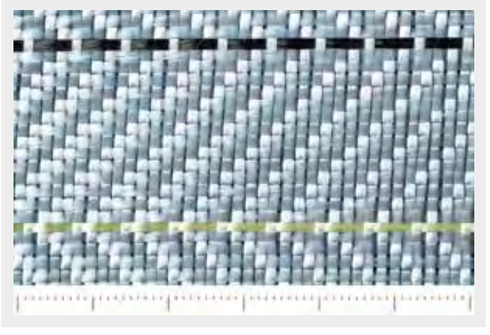
VV 380 P



VV 380 T



VV 350 T



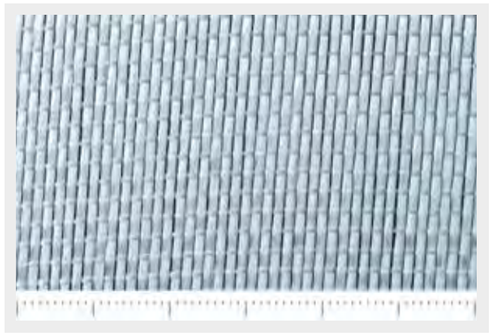
VV 380 FC2

Unidirectional Glass Fabrics

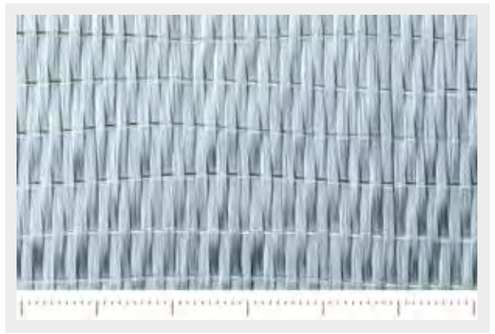
REFERENCE	WEIGHT g/m²	WEAVING STYLE	WEIGHT RATE			TEXTILE COMPOSITION				STD. WIDTH cm	THICK-NESS mm	STD	UPON RE-QUEST
			WARP %	WEFT %		ENDS cm	WARP FIBER QUALITY	ENDS cm	WEFT FIBER QUALITY				
V 210 U	234	Plain	93%	7%		6,9	Roving 300	4,5	EC9 34 tex	100	0,200	•	
V 320 U	330	Plain	95%	5%		4,8	Roving 600	3,0	Glass roving 600 tex	100	0,300	•	
V 430 U	430	Plain	90%	10%		12,4	Roving 300	3,0	EC9 68 tex	100	0,410		•
V 520 U	520	Plain	95%	5%		4,0	Roving 1200 tex	2,0	Thermopl 1200 dtex	100	0,500		•
V 620 U	600	Plain	98%	2%		2,0	Glass EC 9 68 tex	5,0	Glass roving 1200 tex	100	0,600		•

Thermofixed Unidirectional Glass Fabrics

REFERENCE	WEIGHT g/m²	WEAVING STYLE	WEIGHT RATE			TEXTILE COMPOSITION				STD. WIDTH cm	THICK-NESS mm	STD	UPON RE-QUEST
			WARP %	WEFT %		ENDS cm	WARP FIBER QUALITY	ENDS cm	WEFT FIBER QUALITY				
V 210 U TFX	220	Plain	95%	5%		6,9	Roving 300	1,2	Thermo 1210	50/100	0,200	•	
V 300 U TFX	315	Plain	95%	5%		4,8	Roving 600	1,8	Thermo 1210	50/100	0,300	•	
V 500 U TFX	515	Plain	97%	3%		4,0	Roving 1200	1,5	Thermo 1210	50/100	0,500	•	

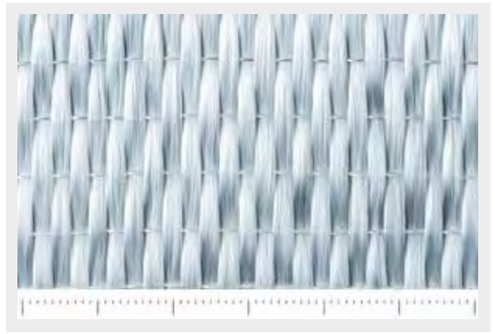


V 210 U



V 210 U TFX

V 300 U TFX



V 500 U TFX

Fabrics for Civil Engineering

Fabrics for Civil Engineering represent an optimal solution in the restoration and structural consolidation of masonry and concrete works, due to high mechanical strength, lightweight and flexibility, allowing non-invasive and reversible reinforcement applications. Unidirectional carbon fabrics can follow different design specifications with the possibility to choose between several weights and widths of the rolls. These products, with the quadriaxial fabrics CBX380, are suitable to produce Fiber Reinforced Polymer (FRP) in combination with a polymeric matrix such as epoxy resin. Meshes can be combined with inorganic matrix, such as mortar, for the realization of Fiber Reinforced Cementitious Matrix (FRCM) products, having the possibility to choose between different combination of fibers, weights and dimensions of the meshes. The available materials are basalt, glass, carbon and aramid.

Thermofixed Unidirectional Carbon Fabrics
High Strength/High Tenacity

REFERENCE	CARBON WEIGHT g/m²	NUMBER OF FILAMENTS	CARBON TYPE	AVAILABLE WIDTH
GV 201 U TFX	200	12K	tensile modulus 230÷290 GPa tensile strength 4300÷5800 MPa	from 10 cm to 100 cm
GV 300 U TFX	300	12K	tensile modulus 230÷290 GPa tensile strength 4300÷5800 MPa	from 10 cm to 100 cm
GV 301 U TFX	300	24K	tensile modulus 230÷290 GPa tensile strength 4300÷5800 MPa	from 10 cm to 100 cm
GV 401 U TFX	400	24K	tensile modulus 230÷290 GPa tensile strength 4300÷5800 MPa	from 10 cm to 100 cm
GV 501 U TFX	500	24K	tensile modulus 230÷290 GPa tensile strength 4300÷5800 MPa	from 10 cm to 100 cm
GV 601 U TFX	600	24K	tensile modulus 230÷290 GPa tensile strength 4300÷5800 MPa	from 10 cm to 100 cm

Thermofixed Unidirectional Carbon Fabrics
High Modulus

REFERENCE	CARBON WEIGHT g/m²	NUMBER OF FILAMENTS	CARBON TYPE	AVAILABLE WIDTH
GV 304 U TFX	300	12K	tensile modulus > 340 GPa tensile strength > 4300 MPa	from 10 cm to 100 cm
GV 404 U TFX	400	12K	tensile modulus > 340 GPa tensile strength > 4300 MPa	from 10 cm to 100 cm
GV 604 U TFX	600	12K	tensile modulus > 340 GPa tensile strength > 4300 MPa	from 10 cm to 100 cm

Meshes for Civil Engineering

REFERENCE	WEIGHT g/m²	WEAVING STYLE	WEIGHT RATE		TEXTILE COMPOSITION
			WARP %	WEFT %	
Carbon Meshes High Tenacity (tensile modulus 230÷290 GPa; tensile strength 4300÷5800 MPa)					
Carbon Mesh 90	90	Plain	50%	50%	12K
Carbon Mesh 180	180	Plain	50%	50%	24K
Carbon Mesh 200	200	Plain	50%	50%	24K
Carbon Mesh 300	300	Plain	50%	50%	24K
Basalt Meshes					
Basalt Mesh 200	200	Plain	50%	50%	
Basalt Mesh 400	400	Plain	50%	50%	
Basalt/Steel Meshes					
Basalt/Steel Mesh 200	200	Plain	50%	50%	
Basalt/Steel Mesh 400	400	Plain	50%	50%	
Hybrid Meshes					
Carbon/Glass	on request	Plain	50%	50%	
Carbon/Aramid	on request	Plain	50%	50%	
Aramid/Glass	on request	Plain	50%	50%	
Basalt/Glass	on request	Plain	50%	50%	
Basalt/Aramid	on request	Plain	50%	50%	

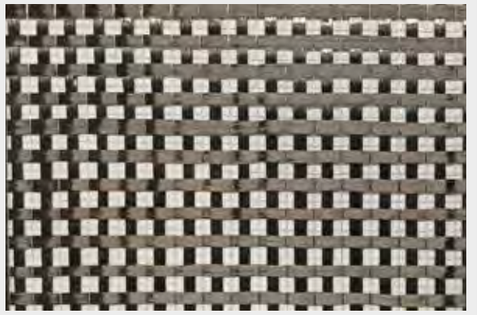
Carbon Quadriaxial

REFERENCE	TEXTILE COMPOSITION					
	0° [gr/m²]	+45° [gr/m²]	90° [gr/m²]	-45° [gr/m²]	STITCHING [gr/m²]	WEIGHT [gr/m²]
CBX380	95	86	106	86	10	383

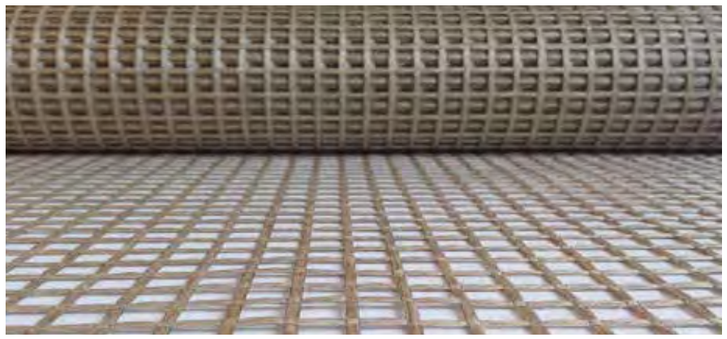
BASALT NET

BIAXCTFIX 172-24K

BIAXCTFIX 180-24K



BIAXCTFIX 300-24K



Joint SAFC

Available also with aramid, basalt and glass fiber

Our Joint is a structural element with a circular section that can be made with carbon, glass, basalt or aramid fiber. It consists of unidirectional filaments of the chosen fiber, which are assembled to form a ‘strand’ hold with an elastic that facilitates handling, impregnation, and fixation operations. It’s widely used in the consolidation of building structures, both new and historic monuments, for the construction of reinforced dowels, chains, reinforcement of arches, masonry, or anchoring on walls. It is not affected by corrosion and allows the creation of holes with a significantly smaller diameter compared to traditional interventions, reducing damages to the original structures.

Carbon High Tenacity

Nominal Value

Diameter	**6**	**8**	**10**	**12**
Yarn Specific Weight (g/m)	1,78	1,78	1,78	1,78
Tensile mechanical strength (Mpa)	> 4300	> 4300	> 4300	> 4300
Elastic module (Gpa)	> 240	> 240	> 240	> 240
Elongation at break (%)	1,70%	1.70%	1.70%	1.70%

Glass

Nominal Value

Diameter	**6**	**8**	**10**	**12**
Yarn Specific Weight (g/m)	2,54	2,54	2,54	2,54
Tensile mechanical strength (Mpa)	2000	2000	2000	2000
Elastic module (Gpa)	70	70	70	70
Elongation at break (%)	2,50%	2,50%	2,50%	2,50%

Aramid

Nominal Value

Diameter	**6**	**8**	**10**	**12**
Yarn Specific Weight (g/m)	1,45	1,45	1,45	1,45
Tensile mechanical strength (Mpa)	2930	2930	2930	2930
Elastic module (Gpa)	102	102	102	102
Elongation at break (%)	2,90%	2,90%	2,90%	2,90%

Glass Joint

Carbon Joint

Carbon Joint

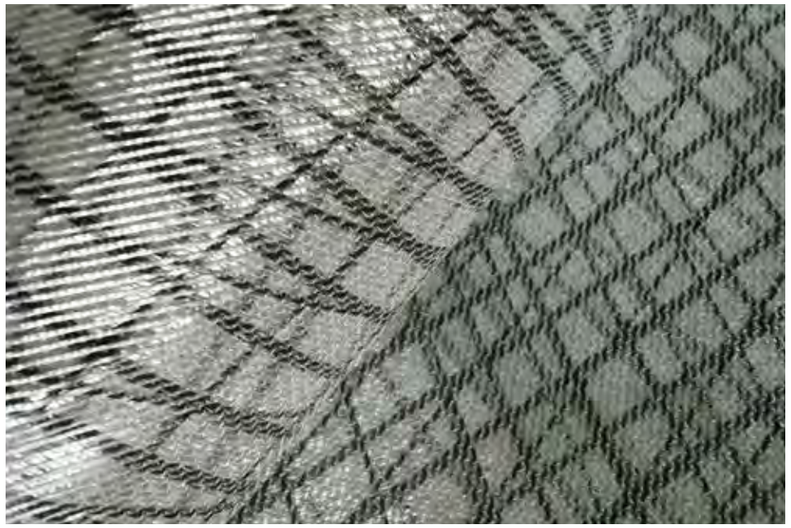
Aramid Joint

Glass Joint

Multiaxials NCF

03 —

selcom® Multiaxial Technology



Multiaxials NCF by Selcom

Selcom is a leading company specialized in manufacturing of multiaxial fabrics (also known as Non Crimp Fabrics NCFs) made of high performance fibers such as carbon, aramid, glass, basalt and others to serve the Composites Industry.

Selcom has developed a strong expertise in NCFs Multiaxials technology, with a tailored and broad portfolio catering to various markets, such as marine, automotive, infrastructures, sport equipments, wind energy and many others.

The company's culture is deeply focused in innovation, quality and customer satisfaction, reflecting its dedication to delivering value and fostering long-lasting relationships with its clients.

- Marine
- Automotive
- Infrastructure
- Sport
- Wind Energy
- Others

selcom® Multiaxial Technology

Selcom production

Selcom NCF (Non-Crimp Fabrics) department offers a wide range of fabrics with a Fabric Areal Weight (FAW) ranging from 50 g/m² to 1,200 g/m². These fabrics are unique in their structure, where the fibers don't follow the traditional crimp pattern. Selcom offer weaving widths in two options: 1270 mm or 2540 mm, catering to customers' specific needs.

Moreover, Selcom can precisely split the fabric down to 50 mm width, creating narrower tapes that can be used in specialized applications or meeting particular requirements.

Fiber orientation angles can be adjusted from 0° to 150°, allowing precise control over the mechanical properties of the final material.

For securing the various fabric layers, Selcom uses Polyester (PES) or resin stitch yarns, ensuring optimal stability during subsequent processing stages.

In addition to NCF fabric production, Selcom owns a Powder Coating Facility, enabling us to apply durable and high-quality coatings.

But its capabilities don't stop there: Selcom can combine NCF fabrics with woven or nonwoven materials through a co-bonding process, creating composite materials with specific performance and characteristics suitable for a wide range of industrial applications.

Carbon NCF

The NCF (Non-Crimp Fabrics) range offers a wide range of fabrics, with a **FAW** from 50 to 1.200 g/m².
Weaving width 1270 mm or 2540 mm.
Slitting down to 50 mm tapes.
Orientations from 0° to 150°.
Stitch yarn: PES, resin.
Powder Coating Facility.
Co-bonding NCFs with Woven/Nonwoven.

Biaxial Fabrics

Biaxial NCF are made up of 2 layers laid in ±45° or 0° 90°, stitched with texturized polyester yarn. ±30° or ±60° available on request.

Triaxial Fabrics

Triaxial NCF are made up of 3 layers laid in 0°±45° or ±45° 90°, stitched with texturized polyester yarn.

Quadriaxial Fabrics

Quadriaxial NCF are made up of 4 layers laid in 0° +45° 90° -45°, stitched with texturized polyester yarn.

Unidirectional Fabrics

Unidirectional NCF are made up of 1 layer laid in 0°, stitched with texturized polyester yarn.

Carbon NCF

REFERENCE		TEXTILE COMPOSITION 0° [gr/m²]	+45° [gr/m²]	90° [gr/m²]	-45° [gr/m²]	Stitching [gr/m²]	Weight [gr/m²]
CBX100	BIAXIAL ±45°	-	50	-	50	5	105
CBX150		-	75	-	75	5	155
CBX200		-	100	-	100	5	205
CBX300		-	150	-	150	7	307
CBX400		-	200	-	200	7	407
CBX600		-	300	-	300	7	607
CBX800		-	400	-	400	7	807
CBXS200	BIAXIAL 0°90°	100	-	100	-	6	206
CBXS400		200	-	200	-	8	408
CBXS600		300	-	300	-	8	608
CBXS800		400	-	400	-	8	808
CQX400	QUADRIAXIAL	100	100	100	100	6	406
CQX600		150	150	150	150	7	607
CQX800		200	200	200	200	7	807
CQX1000		250	250	250	250	8	1008
CTXL225	TRIAXIAL	75	75	-	75	6	231
CTXL300		100	100	-	100	6	306
CTXL450		150	150	-	150	8	458
CTXL600		200	200	-	200	8	608
UNIC200	NCF UD	200	-	18	-	8	226
UNIC300		300	-	18	-	8	326
UNIC600		600	-	18	-	8	626

Stratos NCF

REFERENCE	TEXTILE COMPOSITION 0° [gr/m²]	+45° [gr/m²]	90° [gr/m²]	-45° [gr/m²]	Tolerance	Total weight [gr/m²]
STRATOS CBX90 WS	-	45	-	45	+/- 5%	102
STRATOS CBX120 WS	-	60	-	60	+/- 5%	132
STRATOS CBX150 WS	-	75	-	75	+/- 5%	162
STRATOS CBX200 WS	-	100	-	100	+/- 5%	212
STRATOS CBX250 WS	-	125	-	125	+/- 5%	262
STRATOS CBX300 WS	-	150	-	150	+/- 5%	312

Glass Multiaxials

NCF (Non-Crimp Fabrics) range: FAW from 200 gsm to 4.000 gsm weight. Stitched CSM available from 50 g/m² to 450 g/m².
Weaving width 1270 mm or 2540 mm.
Slitting down to 50 mm tapes. Orientations from 0° to 150° Co-bonding NCFs with Woven/Nonwoven

Biaxial Fabrics

Biaxial NCF are made up of 2 layers laid in ±45° or 0° 90°, stitched with texturized polyester yarn. ±30° or ±60° available on request.

Triaxial Fabrics

Triaxial NCF are made up of 3 layers laid in 0°±45° or ±45° 90°, stitched with texturized polyester yarn.

Quadriaxial Fabrics

Quadriaxial NCF are made up of 4 layers laid in 0° +45° 90° -45°, stitched with texturized polyester yarn.

Unidirectional Fabrics

Unidirectional NCF are made up of 1 layer laid in 0°, stitched with texturized polyester yarn.

E-Glass NCF

REFERENCE		TEXTILE COMPOSITION						
		0° [gr/m²]	+45° [gr/m²]	90° [gr/m²]	-45° [gr/m²]	CSM [gr/m²]	Stitching [gr/m²]	Weight [gr/m²]
UNIE200		200	-	60	-	-	13	273
UNIE300		300	-	60	-	-	13	373
UNIE400		400	-	50	-	-	11	461
UNIE520	UNIDIRECTIONAL	480	-	50	-	-	11	541
UNIE640		600	-	50	-	-	11	661
UNIE800		800	-	50	-	-	11	861
UNIE1000		1000	-	50	-	-	11	1061
EBX250		-	125	-	125	-	14	264
EBX300		-	150	13	150	-	8	321
EBX400		-	200	-	200	-	6	406
EBX450	BIAXIAL ±45°	-	225	-	225	-	6	456
EBX600		-	300	-	300	-	6	606
EBX800		-	400	-	400	-	6	806
EBX1200		-	600	-	600	-	6	1206
EBXS300		150	-	150	-	-	13	313
EBXS400		200	-	200	-	-	13	413
EBXS600	BIAXIAL 0°90°	300	-	300	-	-	12	612
EBXS850		425	-	425	-	-	11	861
EBXS1200		600	-	600	-	-	9	1209
ETXL400		133	133	-	133		13	412
ETXL500	TRIXIAL	167	167	-	167		13	514
ETXL600		200	200	-	200	-	15	615
ETXL690		207	235	-	235	-	15	692
EQX600		148	145	145	185	-	13	636
EQX800	QUADRIAXIAL	200	200	200	200	-	9	809
EQX1000		250	250	250	250	-	9	1009
EQX1200		300	300	300	300	-	9	1209
M50		-	-	-	-	50	-	50
M80		-	-	-	-	80	-	80
M100		-	-	-	-	100	-	100
M150	+ CSM	-	-	-	-	150	-	150
M225		-	-	-	-	225	-	225
M300		-	-	-	-	300	-	300

Specialties

Bespoke solutions

The Multiaxial Technology allows to stack up to 6 layers, with different ply orientations, fibres, and added value processes.

Hybrid fabrics

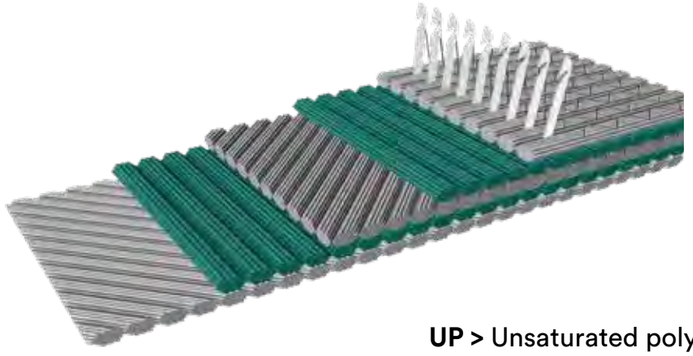
Carbon, Glass, Aramid, Basalt, Flax, can be combined to satisfy our customers' technical requirements.

Self-Adhesive fabrics

Selcom Multiaxials can be finished by applying adhesive, to increase customers' productivity, and enhance healthy environment.

Powder Coating

Selcom Multiaxials can be coated with a Powder Binder to stabilize preforms in RTM Processes.



Resin Compatibility

UP > Unsaturated polyester

100%

EP > Epoxy

100%

PP > Polypropylene

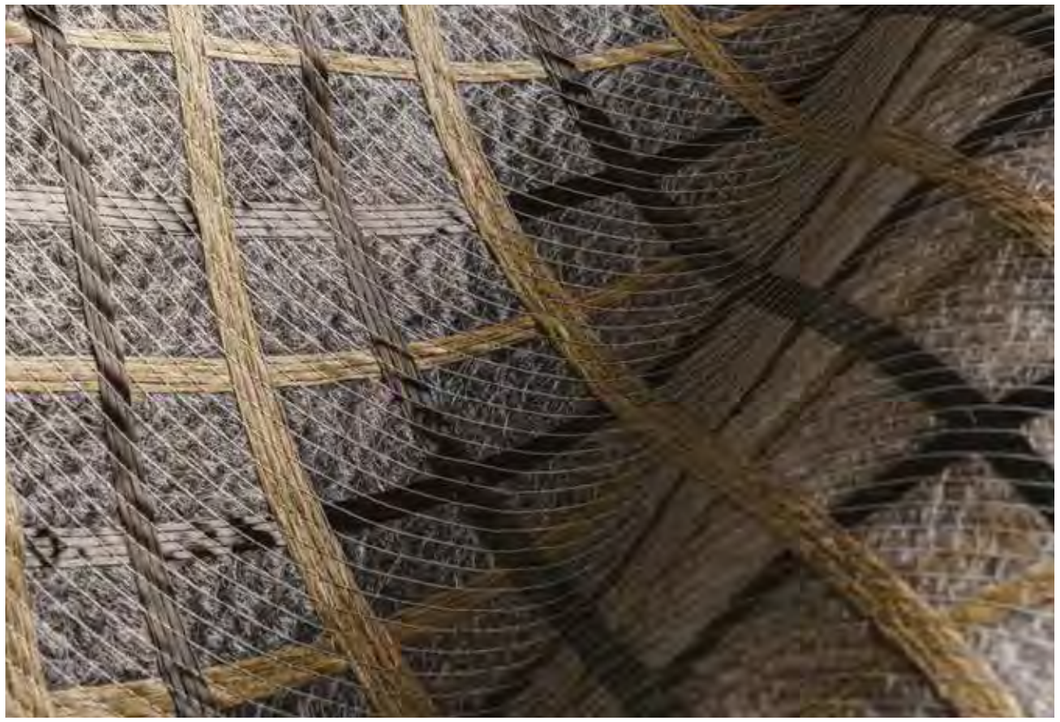
100%

VE > Vinyl Ester

100%

PU > Polyurethane

100%



Rubber improvers

04 —

AA6CFZ

Rubber for reinforcement of composite structures

THICKNESS	0,5 mm - 1 mm - 1,5 mm
RETICULATION AND VUCANIZATION TIME	10 min - 140°C
COLOR	Black
HARDNESS	64 Shore A
BREAKING ELONGATION	310%
TENSILE STRENGTH	8,1 MPa
TEARING STRENGTH	8,1 KN/m

Platexsil AA6CFZ is an elastomeric non-vulcanized EPDM rubber film with 0.5 mm; 1.0 mm; 1.5 mm thickness; this rubber film can be linked directly with both pre-pregs epoxy, vinylester, phenolic and polyester resin. The AA6CFZ film, gives to the structured composite an excellent protection against impact and abrasion, an excellent reduction of splinters after impact and a clear acoustic improvement with an effective damping of vibrations.

AA9KFZ

Rubber for reinforcement of composite structures

THICKNESS	0,3 mm
RETICULATION AND VUCANIZATION TIME	10 min - 140°C
COLOR	Black
HARDNESS	90 Shore A
BREAKING ELONGATION	129%
TENSILE STRENGTH	11,1 MPa
TEARING STRENGTH	3 KN/m

Platexsil AA9KFZ it is the most widely used product. It's a elastomeric EPDM rubber film non-vulcanizate with 0,3 mm; thickness; this rubber film can be linked directly with both pre-pregs epoxy, vinylester, phenolic and polyester resin. The AA9KFZ rubber gives to the structured composite an excellent protection against impact and abrasion, excellent reduction of splinters after the impact thanks to its hardness (90 shore).

VA6BOZ FUELL

Rubber for reinforcement of composite structures, with remarkable chemical resistance

THICKNESS	0,5 mm
RETICULATION AND VUCANIZATION TIME	15 min - 170°C
COLOR	Black
HARDNESS	62 Shore A
BREAKING ELONGATION	336%
TENSILE STRENGTH	11,9 MPa
TEARING STRENGTH	5,9 KN/m

Platexsil VA6BOZ is a fluorine compound elastomeric uncured EPDM rubber of a 0,5 mm thickness which can be directly linked with Epoxy pre-pregs resin. The VA6BOZ rubber is suitable for coatings of tanks or where there is contact with petrol and hydrocarbons and gives to the structured composite a good structured impact resistance and an excellent reduction of splinters after the impact due to its nature.

SUT9609/24 ACUSTIC

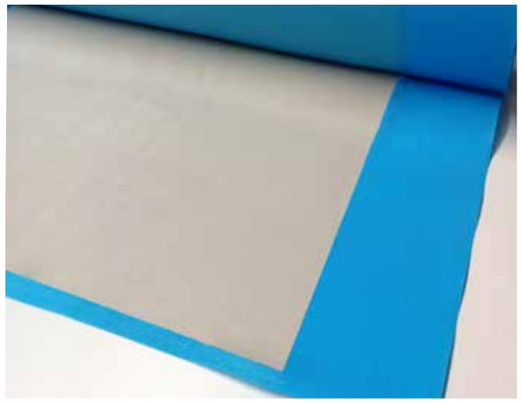
Rubber for reinforcement of composite structures and improvement of acustic

THICKNESS	0,5 mm
RETICULATION AND VUCANIZATION TIME	15 min - 170°C
COLOR	Black
HARDNESS	73 Shore A
BREAKING ELONGATION	357%
TENSILE STRENGTH	7,5 MPa
TEARING STRENGTH	8,3 KN/m

Platexsil SUT9609/24 is an elastomeric non-vulcanized EPDM rubber film with 0.5 mm thickness; this rubber film can be linked directly with both pre-pregs epoxy, vinylester, phenolic and polyester resin. The composite rubber SUT9609/24 film gives to the structured composite an excellent protection against impact and abrasion, an excellent reduction of splinters after impact and a clear acoustic improvement with an effective damping of vibrations.

HFH 4973/18

Silicone Roll Sheet for composite processing, with high chemical and physical performances

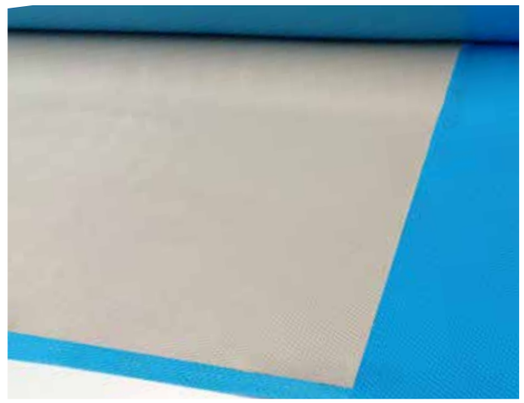


THICKNESS	1,5 mm 2 mm
RETICULATION AND VUCANIZATION TIME	10 min - 110°C
COLOR	Grey
HARDNESS	44 Shore A
BREBREAKING ELONGATION	697%
TENSILE STRENGTH	8,8 MPa
TEARING STRENGTH	34,7 KN/m

Platexsil HFH4973/18 is a film of uncured silicone elastomer with a 2 mm thickness. Features: after the rapid baking (10 minutes at 110° C) has a good elasticity and medium hardness (45 Shore A) very simple to use; malleable and adaptable to all surfaces; high tear strength; excellent heat resistance (from -50°C to 200°C); low linear shrinkage; good non-stick; easy to repair. The most common uses: reusable bags for vacuum, lining molds, protection dampens shock and vibration, to create separation and isolation areas from the resin in stages of cooking.

FH5AAW NOBUS GREY

Silicone Roll Sheet for composite processing



THICKNESS	2 mm
RETICULATION AND VUCANIZATION TIME	10 min - 110°C
COLOR	Grey
HARDNESS	50 Shore A
BREAKING ELONGATION	603%
TENSILE STRENGTH	9,1 MPa
TEARING STRENGTH	34,1 KN/m

Platexsil FH5AAW Nobus Grey it's the most widely used product, it's a nonvulcanized elastomeric silicone film with a 2 mm thickness. Features: after the rapid baking (13 minutes at 110° C) has a good elasticity and an average hardness (53 shore A): very simple use; malleable and adaptable to all surfaces; high tear strength; excellent heat resistance (from -50°C to 200°C); low linear shrinkage; good non-stick; easy to repair. The most common uses: reusable bags for vacuum, lining molds, protection dampens shock and vibration, to create separation and isolation areas from the resin in stages of cooking.

HFH5770/72

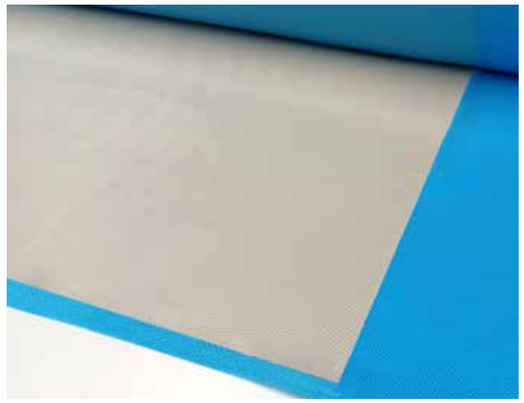
Silicone Roll Sheet for composite processing

THICKNESS	2 mm
RETICULATION AND VUCANIZATION TIME	10 min - 90°C
COLOR	Translucent
HARDNESS	51 Shore A
BREAKING ELONGATION	480%
TENSILE STRENGTH	9,5 MPa
TEARING STRENGTH	27,5 KN/m

Platexsil HFH5770/72 is a non-vulcanized elastomeric silicone film with a 2 mm thickness. After the rapid baking (10 minutes at 90° C) has a good elasticity, trasparency and a 51 Shore A hardness. Good tear resistance; excellent heat resistance (from -50°C to 200°C); low linear shrinkage; good non-stick; easy to repair. The most common uses: lining molds, protection dampens shock and vibration, creation of separation and isolation areas from the resin in stages of cooking.

NM22 SILICONE GREY

Silicone Roll Sheet for composite processing

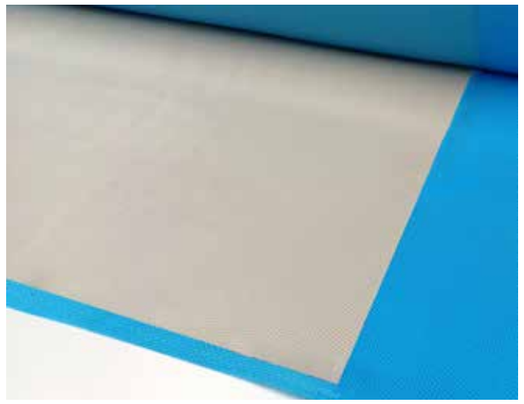


THICKNESS	2 mm
RETICULATION AND VUCANIZATION TIME	10 min - 90°C
COLOR	Grey
HARDNESS	54 Shore A
BREAKING ELONGATION	300%
TENSILE STRENGTH	60 N/m
TEARING STRENGTH	40 N/m

NM 22 SILICONE GREY is the most widely used product, it's a nonvulcanized elastomeric silicone film with a 2 mm thickness. Features: after the rapid baking (10 min a 90°C) has a good elasticity and an average hardness (54 shore A): very simple use; malleable and adaptable to all surfaces; high tear strength; excellent heat resistance (from -50°C to 250°C); low linear shrinkage; good non-stick; easy to repair; long life 12 months. The most common uses: reusable bags for vacuum, lining molds, protection dampens shock and vibration, to create separation and isolation areas from the resin in stages of cooking.

NM55 SILICONE GREY

Silicone Roll Sheet for composite processing,with high chemical and physical performances

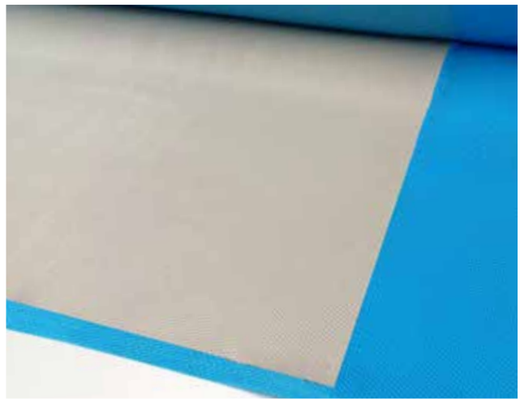


THICKNESS	2 mm
RETICULATION AND VUCANIZATION TIME	10 min - 110°C
COLOR	Grey
HARDNESS	51 Shore A
BREAKING ELONGATION	450%
TENSILE STRENGTH	65 N/m
TEARING STRENGTH	45 N/m

NM55 AM SILICONE GREY is the most widely used product, it's a nonvulcanized elastomeric silicone film with a 2 mm thickness. After the rapid baking (10 min a 90°C) has a good elasticity and an average hardness (53 shore A): very simple use; malleable and adaptable to all surfaces; high tear strength; excellent heat resistance (da -50°C a 250°C); low linear shrinkage; good non-stick; easy to repair, high fidelity in reproduction. The most common uses: reusable bags for vacuum, lining molds, protection dampens shock and vibration, to create separation and isolation areas from the resin in stages of cooking.

X13

Silicone Roll Sheet for composite processing



THICKNESS	2 mm
RETICULATION AND VUCANIZATION TIME	90 min - 120°C 10 min - 175°C
COLOR	Grey
HARDNESS	48 Shore A
BREAKING ELONGATION	420%
TENSILE STRENGTH	7,4 MPa
TEARING STRENGTH	21 DaN/cm

Silicon sheet to be used for composite autoclave production as corner intensifier or moulding and comouding activities.
Good heat resistance (-50°C to 200°C). Very good electrical resistance. The product must be stored in a dry area at room temperature, ideally below 25°C. "Hard creping" could appair after 3 weeks, in that case silicone must be freshed one day before use.

X12

Silicone Paste Brick for composite processing

RETICULATION AND VUCANIZATION TIME	90 min - 120°C 10 min - 175°C
COLOR	Grey
HARDNESS	48 Shore A
BREAKING ELONGATION	420%
TENSILE STRENGTH	7,4 MPa
TEARING STRENGTH	21 DaN/cm

Silicon brick to be used for composite autoclave production as corner intensifier or moulding and comouding activities.
Good heat resistance (-50°C to 200°C).
Very good electrical resistance.
The product must be stored in a dry area at room temperature, ideally below 25°C.
"Hard creping" could appair after 3 weeks, in that case silicone must be freshed one day before use.

GAUSIL

Liquid Silicone for composite processing

COLOR		Yellow
VISCOSITY		5000 mPas
RETICULATION	A+B	1:1
	POT LIFE	30 min
	SET TIME	2 h
HARDNESS		30 +/- 2 Shore A
BREAKING ELONGATION		300%
TENSILE STRENGTH		3MPa
TEARING STRENGTH		10 KN/m

ELASIL
Liquid Silicone for composite processing

COLOR		Blue of Pink
VISCOSITY		6000 mPas
RETICULATION	A+B	1:1
	POT LIFE	15 min
	SET TIME	1 h
HARDNESS		12 Shore A 23 Shore A
BREAKING ELONGATION		500%
TENSILE STRENGTH		3MPa
TEARING STRENGTH		20 KN/m

GHIACCIOSIL
Liquid Silicone for composite processing

COLOR		Translucid
VISCOSITY		11000 mPas
RETICULATION	A+B	1:1
	POT LIFE	10 min
	SET TIME	1 h
HARDNESS		42 +/- Shore A
BREAKING ELONGATION		300%
TENSILE STRENGTH		5 MPa
TEARING STRENGTH		12 KN/m

RTV 930
Liquid Silicone for composite processing

COLOR		Yellow
VISCOSITY		5000 mPas
RETICULATION	A+B	1:1
	POT LIFE	30 min
	SET TIME	2 h
HARDNESS		60 +/- Shore A
BREAKING ELONGATION		200%
TENSILE STRENGTH		2,5 MPa
TEARING STRENGTH		10 KN/m

RTV 960
Liquid Silicone for composite processing

COLOR		Red
VISCOSITY		9000 mPas
RETICULATION	A+B	1:1
	POT LIFE	30 min
	SET TIME	2 h
HARDNESS		30 +/- Shore A
BREAKING ELONGATION		400%
TENSILE STRENGTH		7 MPa
TEARING STRENGTH		22 KN/m

Vacuum Products

05 —

Vacuum Bag FLM 120 75my/80my

DESCRIPTION

- FLM 120 75my H=150 cm sacco (400 m)
- FLM 120 75my H=150 cm V-SHEET sacco (200 m)
- FLM 120 75my H=300 cm V-SHEET sacco (200 m)
- FLM 120 75my H=600 cm V-SHEET sacco (125 m)
- FLM 120 75my H=800 cm V-SHEET sacco (80 m)
- FLM 120 75my H=1000 cm V-SHEET sacco (75 m)
- FLM 120 75my H=1200 cm V-SHEET sacco (75 m)
- FLM 120 75my H=1600 cm V-SHEET sacco (70 m)
- FLM 120 80my H=2400 cm CUSTOM LENGHT
- FLM 120 80my H=2800 cm CUSTOM LENGHT

THICKNESS	75my +/-15% 80my +/-15%
MAX TEMPERATURE OF USE	120°C
COLOR	Green
MATERIAL	Nylon/polyolefin coextruded film
BREAKING ELONGATION ASTM D882	MD 330% +/-15% TD 340% +/-15%
BREAKING TENSILE ASTM D882	MD 33N/mm²+/-15% TD 24N/mm²+/-15%

FLM 120 75my has been designed for the moulding of very large, complicated structures such as boat decks, where the film can be subjected to significant handling and high stresses when vacuum is applied.
It is of particular interest due to its limited sensivity to low humidity levels which are often problematic to predominantly nylon based films, as lack of moisture can reduce flexibility. This beneficial characteristic ensures consistent year long performance in all workshop environments.
FLM120 75my is available in 12m and 16m wide without seams. Other widths are available if ordered.

Vacuum Bag FLM 170 50my

DESCRIPTION

- FLM 170 50my H=260 cm V-SHEET sacco (200 m)
- FLM 170 50my H=320 cm V-SHEET sacco (200 m)
- FLM 170 50my H=400 cm V-SHEET sacco (100 m)

THICKNESS	50my +/-15% 75my +/-15% (on demand)
MAX TEMPERATURE OF USE	170°C
COLOR	Pink
MATERIAL	Nylon/polyolefin coextruded film
BREAKING ELONGATION ASTM D882	MD 360% +/-10% TD 370% +/-10%
BREAKING TENSILE ASTM D882	MD 65 N/mm² +/-10% TD 60 N/mm²+/-10%

FLM 170 is a highly flexible multilayer nylon vacuum bagging film designed for processing of advanced composite structures and laminated security glass. The film is ideal for both oven and autoclave cures, up to a maximum recommended temperature of 170° C. Key benefits of this film are its high elongation and flexibility.

Vacuum Bag TBL 170 50my

DESCRIPTION
TBL 170 50my 3.4“ H=8.6 cm Tubolare (200 m)
TBL 170 50my 4“ H=10 cm Tubolare (200 m)
TBL 170 50my 6“ H=15 cm Tubolare (200 m)
TBL 170 50my 8“ H=20 cm Tubolare (200 m)
TBL 170 50my 10“ H=25 cm Tubolare (200 m)
TBL 170 50my 12“ H=30 cm Tubolare (200 m)
TBL 170 50my 18“ H=46 cm Tubolare (200 m)
TBL 170 50my 24“ H=60 cm Tubolare (200 m)
TBL 170 50my 36“ H=90 cm Tubolare (200 m)
TBL 170 50my 48“ H=120 cm Tubolare (200 m)
TBL 170 50my 60“ H=150 cm Tubolare (200 m)
TBL 170 50my 90“ H=220 cm Tubolare (150 m)

THICKNESS	50my +/-10%
MAX TEMPERATURE OF USE	170° C
COLOR	Pink
MATERIAL	Nylon/polyolefin coextruded film
BREAKING ELONGATION ASTM D882	MD 360% +/-10% TD 370% +/-10%
BREAKING TENSILE ASTM D882	MD 65 N/mm² +/-10% TD 60 N/mm² +/-10%

TBL 170 is a highly flexible multilayer nylon vacuum bagging film designed for processing of advanced composite structures and laminated security glass. The film is ideal for both oven and autoclave cures, up to a maximum recommended temperature of 170°C. Key benefits of this film are its high elongation and flexibility.

Vacuum Bag TBL 170 75my

DESCRIPTION
TBL 170 75my 3.3“ H=8.6 cm Tubolare (250 m)
TBL 170 75my 4“ H=10 cm Tubolare (250 m)
TBL 170 75my 5“ H=13 cm Tubolare (250 m)
TBL 170 75my 6“ H=15 cm Tubolare (250 m)
TBL 170 75my 8“ H=20 cm Tubolare (250 m)
TBL 170 75my 10“ H=25 cm Tubolare (250 m)
TBL 170 75my 12“ H=30 cm Tubolare (250 m)
TBL 170 75my 36“ H=90 cm Tubolare (200 m)
TBL 170 75my 48“ H=120 cm Tubolare (200 m)
TBL 170 75my 60“ H=150 cm Tubolare (200 m)
TBL 170 75my 90“ H=150 cm Tubolare (200 m)

THICKNESS	75my +/-10%
MAX TEMPERATURE OF USE	170° C
COLOR	Pink
MATERIAL	Nylon/polyolefin coextruded film
BREAKING ELONGATION ASTM D882	MD 380% +/-10% TD 390% +/-10%
BREAKING TENSILE ASTM D882	MD 68 N/mm² +/-10% TD 64 N/mm² +/-10%

TBL 170 is a highly flexible multilayer nylon vacuum bagging film designed for processing of advanced composite structures and laminated security glass. The film is ideal for both oven and autoclave cures, up to a maximum recommended temperature of 170°C. Key benefits of this film are its high elongation and flexibility.

Self Release Vacuum bag TBLAD 170 70my/100my

DESCRIPTION
TBLAD 170 70my 2.0” H=5 cm Tubolare autodistaccante (200 m)
TBLAD 170 70my 3.3” H=8.6 cm Tubolare autodistaccante (200 m)
TBLAD 170 70my 4” H=10 cm Tubolare autodistaccante (200 m)
TBLAD 170 70my 6” H=15 cm Tubolare autodistaccante (200 m)
TBLAD 170 70my 8” H=20 cm Tubolare autodistaccante (200 m)
TBLAD 170 70my 10” H=25 cm Tubolare autodistaccante (200 m)
TBLAD 170 70my 17.7” H=45 cm Tubolare autodistaccante (200 m)
TBLAD 170 70my 48” H=120 cm Tubolare autodistaccante (200 m)
TBLAD 170 70my 60” H=150 cm Tubolare autodistaccante (200 m)
TBLAD 170 70my 90” H=228 cm Tubolare autodistaccante (200 m)
TBLAD 170 100my 2” H=5 cm Tubolare autodistaccante (200 m)

THICKNESS	70my +/-15% 100my +/-15%
MAX TEMPERATURE OF USE	170° C
COLOR	Green
MATERIAL	Nylon/polyolefin coextruded film
BREAKING ELONGATION ASTM D882	MD 445% +/-10% TD 350% +/-15%
BREAKING TENSILE ASTM D882	MD 50N/mm²+/-10% TD 42N/mm²+/-10%

TBLAD 170 is a self releasing multilayer nylon vacuum bagging film designed for processing of hollow advanced composite structures where easy removal of the bag following the cure is designed to avoid damage to the components. The film is ideal for both oven and autoclave cures, up to a maximum recommended temperature of 170° C. Key benefits of this film are its high elongation and flexibility.

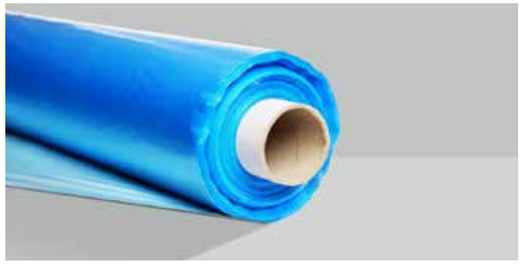
Vacuum bag TBL 200 50my

DESCRIPTION
TBL 200 50my 1” H=2.5 cm Tubolare (250 m)
TBL 200 50my 1.6” H=4 cm Tubolare (250 m)
TBL 200 50my 2” H=5 cm Tubolare (250 m)
TBL 200 50my 3.3” H=8.6 cm Tubolare (250 m)
TBL 200 50my 4” H=10 cm Tubolare (250 m)
TBL 200 50my 5” H=13 cm Tubolare (250 m)
TBL 200 50my 6” H=15 cm Tubolare (250 m)
TBL 200 50my 8” H=20 cm Tubolare (250 m)
TBL 200 50my 10” H=25 cm Tubolare (250 m)
TBL 200 50my 12” H=30 cm Tubolare (250 m)
TBL 200 50my 24” H=60 cm Tubolare (250 m)
TBL 200 50my 36” H=90 cm Tubolare (250 m)
TBL 200 50my 48” H=120 cm Tubolare (250 m)
TBL 200 50my 60” H=150 cm Tubolare (250 m)

THICKNESS	50µ +/-10%
MAX TEMPERATURE OF USE	200°C
COLOR	Green
MATERIAL	Nylon/polyolefin coextruded film
BREAKING ELONGATION ASTM D882	MD 360% +/-15% TD 390% +/-15%
BREAKING TENSILE ASTM D882	MD 110 N/mm²+/-15% TD 105 N/mm²+/-15%

TBL 200 is a tough nylon vacuum bagging film designed for processing of advanced composite structures and laminated security glass. The film is ideal for both oven and autoclave cures, up to a maximum recommended temperature of 200°C. Key benefits of this film are its high elongation and flexibility.

Release Film FLD 120 25my HD

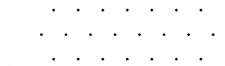


DESCRIPTION

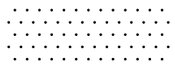
FLD 120 HD NP 25my H=100 cm
Film distaccante Blu (250 m)

FLD 120 HD microforato P3 25my H=100 cm
Film distaccante Blu (250 m)

FLD 120 HD microforato P31 25my H=150 cm
Film distaccante Blu (250 m)



P3
10 mm centres
size: 0,5mm +/- 0,2mm



P31
5 mm centres
size: 0,8mm +/- 0,2mm

THICKNESS	25my
MAX TEMPERATURE OF USE	120° C
COLOR	Blue
MATERIAL	Polipropilene HD
BREAKING ELONGATION ASTM D882	200%

Release film suitable for processing at low temperature; the version with peforation makes the product particularly suitable for under vacuum processes. Excellent release properties on all resin system.

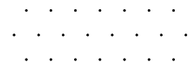
Release Film FLD 170 30my

DESCRIPTION

FLD 170 NP 30my H=150 cm Film distaccante Verde (250 m) or Jumbo* (1500 m)

FLD 170 microforato P3 30my H=150 cm Film distaccante Verde (250 m) o Jumbo* (1500 m)

* for Jumbo MQO 8 ROT



P3
10 mm centres
size: 0,5mm +/- 0,2mm

THICKNESS	30my
MAX TEMPERATURE OF USE	168° C
COLOR	Green
MATERIAL	Polipropilene
BREAKING ELONGATION ASTM D882	400%
BREAKING TENSILE ASTM D882	35 N/mm²

FLD 170 30my is a mid/high temperature range, highly flexible polypropylene based release film. It is suitable to be used with epoxy prepreg up to 170° C and may be used in resin infusion applications with a wide range of resin systems however we recommend small scale trials prior to commiting to large infusion mouldings. FLD 170 30my is available in green colour with P3 and P31 perforations in a standard thickness of 30 microns. Other thicknesses and colours are available on request.

Release Film HT-400 NP

DESCRIPTION

FLD HT-400 NP 25my H= 100 cm Film Distac Sfogliato (500 m)

FLD HT-400 NP 25my H= 120 cm Film Distac Sfogliato (200 m)

THICKNESS	25my
MAX TEMPERATURE OF USE	315° C
COLOR	Natural
MATERIAL	PTFE
BREAKING ELONGATION ASTM D882	> 400%
BREAKING TENSILE ASTM D882	> 30 N/mm²

FLD HT-400 NP release film is manufactured from modified PTFE with the highest technology available on the market with an accurate process parameters in line quality control.
Standard width up to 1220 mm.

Release Film HT-500 FEP

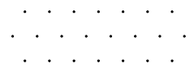
DESCRIPTION

FLD HT-500 FEP NP 13my H=122 cm Film distac. Rosso (153 m)

FLD HT-500 FEP P3 25my H=122 cm Film distac. Rosso (153 m)

FLD HT-500 FEP 25my H=122 cm Film distac. Rosso (153 m)

FLD HT-500 FEP P3 25my H=122 cm Film distac. Rosso (153 m)



P3
10 mm centres
size: 0,5mm +/- 0,2mm

THICKNESS	13my / 25my
MAX TEMPERATURE OF USE	200° C
COLOR	Red
MATERIAL	Teflon-Fep
BREAKING ELONGATION ASTM D882	>150%
BREAKING TENSILE ASTM D882	>15 Mpa

Fluoropolymer film gives to the product outstanding resistance to chemical agents, a working temperature range which exceeds 200° C and excellent mechanical properties and durability.

Peel Ply

DESCRIPTION
T-062 Peel Ply 62 g/m² H=150 cm (100 m)
T-077 Peel Ply 85 g/m² H=5 cm (100 m)
T-077 Peel Ply 85 g/m² H=6 cm (100 m)
T-077 Peel Ply 85 g/m² H=10 cm (100 m)
T-077 Peel Ply 85 g/m² H=15 cm (100 m)
T-077 Peel Ply 85 g/m² H=25 cm (100 m)
T-077 Peel Ply 85 g/m² H=35 cm (100 m)
T-077 Peel Ply 85 g/m² H=80 cm (100 m)
T-077 Peel Ply 85 g/m² H=100 cm (100 m)
T-077 Peel Ply 85 g/m² H=106 cm (100 m)
T-077 Peel Ply 85 g/m² H=120 cm (100 m)
T-077 Peel Ply 85 g/m² H=160 cm (100 m)

COLOR	White/Red
MATERIAL	Nylon Fiber
MAX TEMPERATURE OF USE	<210°C
STYLE FABRIC	Plain - hot fixed
PURITY	< 1%
THICKNESS	T-062 0,11 mm T-077 0,15 mm
BREAKING TENSILE ASTM D881	>320 N/cm Warp >310 N/cm Weft

Release fabric suitable for professional use with different possibility range of technologies and with different resin systems; recommended when bonding or painting. The easy detachment from the laminate is determined by a correct placement.

Bleader Poly-Flex

DESCRIZIONE / DESCRIPTION
POLY-FLEX TF12 120 g/m² | Spessore 1.3 mm | H=100 cm (100 m)
POLY-FLEX TF12 120 g/m² | Spessore 1.3 mm | H=127 cm (100 m)
POLY-FLEX TF15 150 g/m² | Spessore 1.6 mm | H=100 cm (100 m)
POLY-FLEX TF15 150 g/m² | Spessore 1.6 mm | H=127 cm (100 m)
POLY-FLEX TF20 200 g/m² | Spessore 2.0 mm | H=100 cm (100 m)
POLY-FLEX TF20 200 g/m² | Spessore 2.0 mm | H=127 cm (100 m)
POLY-FLEX TF30 300 g/m² | Spessore 2.7 mm | H=100 cm (50 m)

MAX TEMPERATURE OF USE	180° C
COLOR	White
MATERIAL	Poliestere fiber
ELONGATION	> 50%

Release fabric suitable for professional use with different possibility range of technologies and with different resin systems; recommended when bonding or painting. The easy detachment from the laminate is determined by a correct placement.

Flow mats

DESCRIPTION
FLOW MAT 140 g/mq 600my H=100 cm (100 ml)
FLOW MAT 140 g/mq 60my H=145 cm (100 ml)

AREAL WEIGHT	140 +/-5%
MAX TEMPERATURE OF USE	95/125° C
COLOR	Blue
MATERIAL	HDPE

HDPE flow mat produced with first choice raw materials. Suitable for vacuum infusion process or light RTM it allowes controlled resin flow and resin front uniformity.

Infusion Combos

DESCRIPTION		
1.	BLUE MESH + FLD 120 P31 H=145 cm	
2.	BLUE MESH + FLD 120 P31 + TO77 H=152 cm	
	1.	2.
WEIGHT g/m²	180	260
MAX TEMPERATURE OF USE	120°C	90°C

DESCRIPTION		
3.	GREEN MESH + FLD120 P31 ECO H=150 cm	
4.	GREEN MESH + FLD120 P31 + T077 ECO H=150 cm	
	3.	4.
WEIGHT g/m²	210	285
PROCESS	Hot Coating	

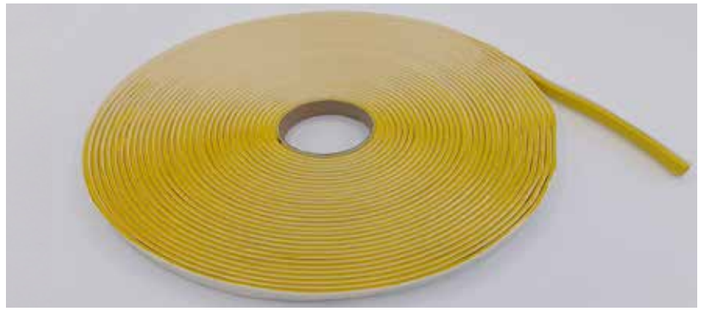
Infusion combos provide highly conformable distribution of the resin and continuous air evacuation during vacuum assisted resin transfer moulding (VARTM) processes.

Thanks to the special knitted pattern of the HDPE net, to the P31 perforation of the HDPE film and to its flexible nature, the product is perfect also in complex designed moulds.

Butyl Sealant Tapes

REFERENCE	SIZE	UNITS IN THE BOX	COLOR	MAXIMUM USE TEMPERATURE	MATERIAL
SIGILLANTE AN-3 Grey	Ø4mm x 11m	30	Grey	90°C	Butylic
SIGILLANTE AN-3 Grey	6mm x 2mm x 21m	30	Grey	90°C	Butylic
SIGILLANTE AN-3 Grey	12mm x 2mm x 21m	22	Grey	90°C	Butylic
SIGILLANTE AN-3 Black MT	10mm x 2mm x 20 m	22	Black	130°C	Butylic
SIGILLANTE AN-3 Yellow HT	6mm x 2mm x 21m	30	Yellow	210°C	Butylic
SIGILLANTE AN-3 Yellow HT	10mm x 2mm x 15m	22	Yellow	210°C	Butylic
SIGILLANTE AN-3 Yellow HT	10mm x 3mm x 15m	30	Yellow	210°C	Butylic

The Sealant AN-3 is a sealing tape developed for vacuum bagging operations. This product has been formulated to outperform all tapes in its category. With aggressive initial tack, it will mantain an air-tight seal during the cure cycle, yet strip clean from the tool, with virtually no trace of residue. AN-3 HT provides easy de-bagging and minimal clean-up between productions cycles.
AN-3 HT exhibits these excellent usage and release characteristics from composite and metal tools, in both oven and autoclave applications. The tape AN-3 GREY has an optimum cure temperature range from room temperature to 90° C with peaks up to 130°/140° C like in standard autoclave cycles, while the AN-3 HT YELLOW tape reach to 210° C.



Vacuum Accessories

DESCRIPTION
SPIRALINA PeHd Ø 10×12 mm | 100 m
SPIRALINA PeHd Ø 12×14 mm | 100 m

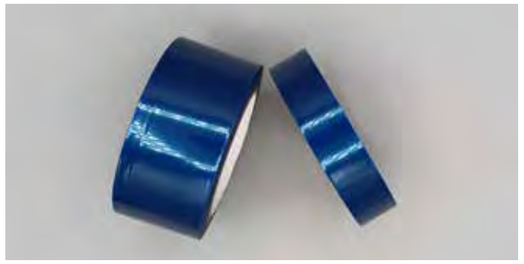
DESCRIPTION
SPIRALINA PeHd Ø 10×12 mm + **Mesh** | 100 m
SPIRALINA PeHd Ø 12×14 mm + **Mesh** | 100 m

DESCRIPTION
TUBO PeLd Ø 10×12 mm | 100 m
TUBO PeLd Ø 12×14 mm | 100 m
TUBO PeLd Ø 12,5×15 mm | 100 m
TUBO PeLd Ø 15×18 mm | 100 m

DESCRIPTION	
CONNETTORE A L BOX - 100 pieces	**external Ø 10 mm / 12,5 mm / 15 mm**
CONNETTORE A T BOX - 100 pieces	**external Ø 10 mm / 12,5 mm / 15 mm**

DESCRIPTION
MORSETTO INFUSIONE BOX - 10 pieces

DESCRIPTION
INFUSION PLUG (box 100 pieces) 12 mm
INFUSION PLUG (box 100 pieces) 12 mm with spiral hole
INFUSION PLUG (box 100 pieces) 16 mm
INFUSION PLUG (box 100 pieces) 16 mm with spiral hole

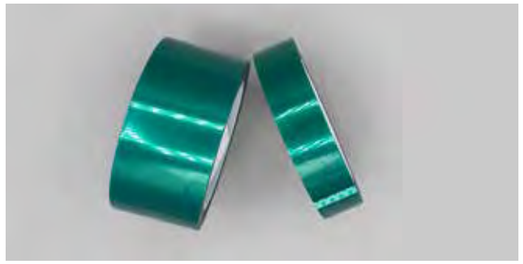


DESCRIPTION

NASTRO ADESIVO HT-ST LIGHT BLUE
15 mm x 66 m

NASTRO ADESIVO HT-ST LIGHT BLUE
25 mm x 66 m

NASTRO ADESIVO HT-ST LIGHT BLUE
50 mm x 66 m



DESCRIPTION

NASTRO ADESIVO FLASH TAPE HT GREEN
25 mm x 66 m

NASTRO ADESIVO FLASH TAPE HT GREEN
50 mm x 66 m

DESCRIPTION

NASTRO ADESIVO FLASH TAPE PTFE HT
25 mm x 66 m

NASTRO ADESIVO FLASH TAPE PTFE HT
50 mm x 66 m

DESCRIPTION

SPRAY 77 ADESIVO
500 ml CV 66397

DESCRIPTION

SPRAY TACKIFIER 600 ml IMP TF01

DESCRIPTION

WBT-1 CUTTER ELETTRICO complete set

WBT-1H RICAMBIO LAMA STANDARD

WBT-1D RICAMBIO BATTERY PACK

DESCRIPTION

TUBO ORANGE GOMMA SILICONICA PER AUTOCLAVE
M/M 1/4” L= 2,0 - 3,0 - 4,0 - 5,0 - 6,0 m

DESCRIPTION

ATTACCO RAPIDO HT + GUARNIZIONE VITON FEMMINA
1/4” NEW

ATTACCO RAPIDO HT + GUARNIZIONE VITON MASCHIO
1/4” NEW

DESCRIPTION

ATTACCO ASPIRAZIONE PER AUTOCLAVE Ø 60 m

DESCRIPTION

ATTACCO ASPIRAZIONE A BAIONETTA Ø 60 m

Core Materials

06 —

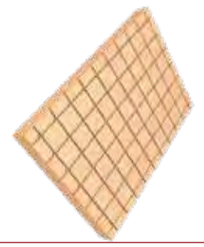
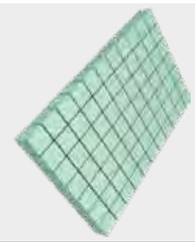
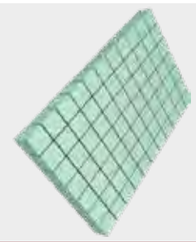
Flexyfoam Data Sheets

PVC Foam

REFERENCE		M-40	M-48	M-55	M-75	ET-55	ET-75	M-90	M-130	M-200
NOMINAL DENSITY	ISO 845	40 kg/m³	48 kg/m³	60 kg/m³	80 kg/m³	60 kg/m³	80 kg/m³	100 kg/m³	130 kg/m³	200 kg/m³
THERMAL CONDUCTIVITY COEFFICIENT	ISO 830	0,031 W/m K	0,031 W/m K	0,031 W/m K	0,033 W/m K	0,031 W/m K	0,033 W/m K	0,035 W/m K	0,039 W/m K	0,048 W/m K
THERMAL BENDING STABILITY	DIN 53424	80°C	80°C	85°C	85°C	100°C	100°C	90°C	95°C	100°C
MINIMUM TEMPERATURE TEST-ED		-200°C	-200°C	-200°C	-200°C	-200°C	-200°C	-200°C	-200°C	-200°C
FIRE RESISTING PROPERTY	ASTM D 1692-67T	M2	M2	M2	M2	M2	M2	M2	M2	M2
THERMAL EXPANSION COEFFICIENT	x10-⁶ (°C)-¹	40	40	40	35	35	35	35	30	25
COMPRESSIVE MODULUS	ISO 844	37 N/mm²	44 N/mm²	67 N/mm²	97 N/mm²	65 N/mm²	96 N/mm²	121 N/mm²	183 N/mm²	300 N/mm²
COMPRESSIVE STRENGHT	ISO 844	0,52 N/mm²	0,62 N/mm²	0,98 N/mm²	1,60 N/mm²	1,01 N/mm²	1,63 N/mm²	2,05 N/mm²	3,22 N/mm²	5,07 N/mm²
TENSILE MODULUS	ASTM D 1623	68 N/mm²	71 N/mm²	100 N/mm²	146 N/mm²	97 N/mm²	138 N/mm²	162 N/mm²	227 N/mm²	358 N/mm²
TENSILE STRENGHT	ASTM D 1623	0,71 N/mm²	0,98 N/mm²	1,82 N/mm²	2,74 N/mm²	1,98 N/mm²	2,84 N/mm²	3,18 N/mm²	4,35 N/mm²	6,26 N/mm²
SHEAR MODULUS	ISO 1922	15 N/mm²	16 N/mm²	21 N/mm²	30 N/mm²	21 N/mm²	29 N/mm²	36 N/mm²	55 N/mm²	77 N/mm²
SHEAR STRENGHT	ISO 1922	0,47 N/mm²	0,52 N/mm²	0,79 N/mm²	1,2 N/mm²	0,86 N/mm²	1,26 N/mm²	1,48 N/mm²	2,44 N/mm²	3,44 N/mm²
SHEAR ELONGATION	ISO 1922	6%	7%	18%	19%	29%	32%	25%	32%	35%
FLEXURAL MODULUS	ISO 1209	24 N/mm²	32 N/mm²	40 N/mm²	70 N/mm²	40 N/mm²	70 N/mm²	80 N/mm²	120 N/mm²	160 N/mm²
BENDING STRENGHT	DIN 53423	0,6 N/mm²	1 N/mm²	1,4 N/mm²	2,1 N/mm²	1,4 N/mm²	2,1 N/mm²	2,5 N/mm²	3 N/mm²	3,5 N/mm²
STYRENE ABSORBTION		<10 g/m²	<10 g/m²	<10 g/m²	<10 g/m²	<10 g/m²	<10 g/m²	<10 g/m²	<10 g/m²	<10 g/m²
WATER ABSORBTION	ASTM 272	0,09 kg/m²	0,09 kg/m²	0,07 kg/m²	0,07 kg/m²	0,06 kg/m²	0,07 kg/m²	0,04 kg/m²	0,03 kg/m²	0,02 kg/m²
STANDARD DIMENSIONS		1330 mm x 2850 mm	1270 mm x 2730 mm	1150 mm x 2450 mm	1020 mm x 2180 mm	1120 mm x 2400 mm	1000 mm x 2150 mm	950 mm x 2050 mm	850 mm x 1900 mm	750 mm x 1600 mm
SMALL DIMENSIONS (not always available)		-	1250 mm x 1700 mm	1150 mm x 1600 mm	1080 mm x 1500 mm	-	1000 mm x 1420 mm	980 mm x 1350 mm	850 mm x 1200 mm	750 mm x 1020 mm

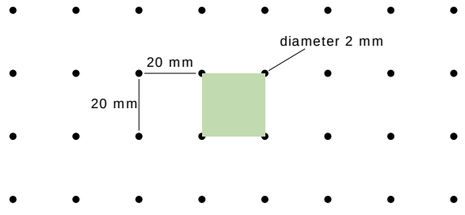
Flexyfoam Finishing

			
GR 2	GR 1	FLEX	PN
Grooves	Grooves	Squares	
GR2 = 20×20 mm cut width 2 mm depth 2mm	GR1 = 20 mm cut width 2 mm depth 2mm	Width cut 2 mm STANDARD thickness up to 25mm; squares 30×30 mm thickness over 25mm squares 40×40 mm OPTION: squares 20×20 mm	
			Punched diameter 2mm
			Distance holes STANDARD PN2 20×20 mm OPTIONS N2R: 20×20 mm Rhombus PN4: 40×40 mm PN4R: 40×40 mm Rhombus

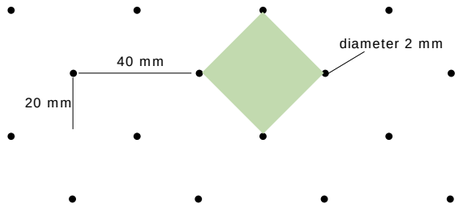
		
GR 2 + PN	SCRIM	SCRIM+HL
Squares	Squares	Squares
GR2 = 20×20 mm cut width 2 mm depth 2mm	Width cut - 1 mm up to 25 mm thickness - 2 mm over 25mm thickness STANDARD SCRIM thickness up to 5mm: squares 30×30 mm thickness over 25mm: squares 40×40 mm OPTION squares 20×20 mm	Width cut - 1 mm up to 25 mm thickness - 2mm over 25mm thickness STANDARD SCRIM20 squares 20×20mm
Punched diameter 2mm		Punched diameter 2mm in the middle of each cut
Distance holes STANDARD PN2 20×20 mm OPTIONS N2R: 20×20 mm Rhombus PN4: 40×40 mm PN4R: 40×40 mm Rhombus	For High Density M130 or more Width cut 2 mm	For High Density M130 or more Width cut 2 mm

Drawings

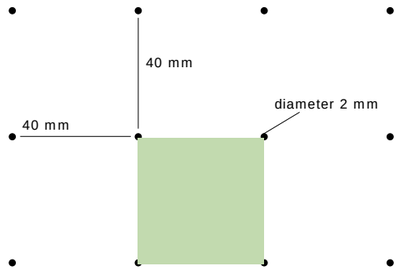
PN2 = 20 x 20 mm square /standard perforation



PN2R = 20 x 20 mm rhombus / optional perforation



PN4 = 40 x 40 square /standard perforation



Angeloni Group Srl
Via Abbate Tommaso, 72/A - 30020
Quarto d'Altino (VE) - Italy
T. +39 0422 780580
F. +39 0422 782782
E. info@angelonigroup.com

angelonigroup.com

PRINTED OCTOBER 2024