



Biresin® CR84  
Feel the Power!

# Biresin® CR84

## SYSTEM FOR HAND LAY-UP UND PRESS PROCESS

**The epoxy resin system by Sika Advanced Resins is optimized for the production processes of high-quality sporting goods. Biresin® CR84 offers the optimal mechanical properties to withstand the high material requirements.**

- Viscosity of the thixotropic system is optimized for the manufacturing processes of ski, snowboards, skateboards, wakeboards, surfboards, etc.
- High adhesion to a wide variety of substrates
- Optimal fibre impregnation and compatibility with different types of fibres

**BUILDING TRUST**



# Biresin® CR84

## AREAS OF APPLICATION

- Production of sporting goods, e.g. ski, snowboards, skateboards, wakeboards, surfboards, etc. for hand lay-up and press process.

## PRODUCT BENEFITS / PROPERTIES

- High  $T_g$  of approx. 100 °C
- Optimal fibre impregnation
- Excellent mechanical properties
- Good curing at roomtemperature
- Very good adhesion to different substrates such as e.g. steel edges, elastic inserts, ski surface

## DESCRIPTION

- Epoxy resin for hand lay-up and press process optimized for the production process of sporting goods.

PHYSICAL DATA	RESIN (A)	HARDENER (B)	
Individual components	Biresin® CR84	Biresin® S12	Biresin® G30
Viscosity, 25 °C	mPa.s	~ 3,000	~ 2,350
Density, 25 °C	g/ml	~ 1.16	~ 0.98
Mixing ratio	in parts by weight	100	20
		<b>Mixture</b>	
Pot life (100 ml, 20 °C)	min	60	100
Mixed viscosity (25 °C)	mPa.s	1,600	2,950

## MECHANICAL DATA, NEAT RESIN SPECIMEN (APPROX. VALUES AFTER OPTIMIZED POST CURING)

Biresin® CR84 resin (A)		with hardener (B)	Biresin® S12	Biresin® G30
Density	ISO 1183	g/cm <sup>3</sup>	1,18	1,16
Tensile E-Modulus	ISO 527	MPa	3,050	2,550
Tensile strength	ISO 527	MPa	86	75
Tensile elongation at break	ISO 527	%	5,5	5,2
Flexural strength	ISO 178	MPa	126	112
Flexural E-Modulus	ISO 178	MPa	3,050	2,800
Compressive strength	ISO 604	MPa	109	100
Impact resistance	ISO 179	kJ/m <sup>2</sup>	31	42

## THERMAL DATA OF NEAT RESIN SPECIMEN (APPROX. VALUES AFTER OPTIMIZED POST CURING)

Biresin® CR84 resin (A)		with hardener (B)	Biresin® S12	Biresin® G30
Glas transition temperature	ISO 11357	° C	100	98

Our most current General Sales Conditions shall apply.

Please consult the Product Data Sheet prior to any use and processing.

Actual Product Data Sheets and information about additional products please find in:

[www.sikaadvancedresins.com](http://www.sikaadvancedresins.com)



**Sika Deutschland GmbH**  
**Sika Advanced Resins**

Stuttgarter Strasse 139  
72574 Bad Urach

Germany

Telefon + 49 (0) 7125 940-492

Fax + 49 (0) 7125 940-401

E-Mail [tooling@de.sika.com](mailto:tooling@de.sika.com)

[www.sikaadvancedresins.de](http://www.sikaadvancedresins.de)

**Sika Automotive France SAS**  
**Sika Advanced Resins**

Z.I. des Béthunes - 15 rue de l'Equerre  
CS 40444 Saint Ouen l'Aumône

95005 Cergy pontoise Cedex - France

Telefon +33 (0) 134 40 34 60

Fax +33 (0) 134 21 97 87

E-Mail [advanced.resins@fr.sika.com](mailto:advanced.resins@fr.sika.com)

[www.sikaadvancedresins.fr](http://www.sikaadvancedresins.fr)

Agent & Distributor in Egypt

**AP&C**

5, El Khalifa Elmotii St. Nasr city

Cairo, Egypt

Tel : 02 23848366

Fax : 02 23848326

Mob: 010 233 99 098

E-Mail : [apandc.egypt@gmail.com](mailto:apandc.egypt@gmail.com)

[www.apandcegypt.net](http://www.apandcegypt.net)

**BUILDING TRUST**

