

Biresin® CR130

Composite resin system

Areas of Application

- For infusion or injection processing
- Specially for applications when higher temperature resistance is required

Product Benefits

- Fast infiltration of dry fabrics and nonwovens is possible due to low mixed viscosity
- Glass transition temperatures up to 130°C dependent on curing conditions

Description

- Basis Two-component-epoxy-system
- Resin (A) **Biresin® CR130**, epoxy resin, translucent
- Hardener (B) **Biresin® CH135-4**, amine, colourless-transparent

Physical Data		Resin (A)	Hardener (B)
Individual Components		Biresin® CR130	Biresin® CH135-4
Viscosity, 25°C	mPas	1,150	20
Density, 25°C	g/ml	1.16	0.92
Mixing ratio	in pbw	100	26
		Mixture	
Potlife, 100 g / RT, approx. values	min	150	
Mixed viscosity, 25°C, approx. values	mPas	400	

Mechanical Data, neat resin specimen: approx. values after 8 h / 125°C			
Biresin® CR130 resin (A)		with hardener (B)	Biresin® CH135-4
Density	ISO 1183	g/cm³	1.15
Flexural E-Modulus	ISO 178	MPa	2,800
Flexural strength	ISO 178	MPa	133
Compressive strength	ISO 604	MPa	116
Tensile strength	ISO 527	MPa	87
Elongation at break	ISO 527	%	5.3
Impact resistance	ISO 179	kJ/m²	32

Thermal Data, neat resin specimen: approx. values after 8 h / 125°C			
Biresin® CR130 resin (A)		with hardener (B)	Biresin® CH135-4
Heat distortion temperature	ISO 75A	°C	130
	ISO 75B	°C	132
Glass transition temperature	ISO 11357	°C	130



Processing

- The material and processing temperatures should be from 18 to 35°C.
- Before demoulding precuring of at least 2 h at 60°C is recommended.
- To clean brushes or tools immediately Sika Reinigungsmittel 5 is recommended.
- Additional informations are available in "Processing Instructions for Composite Resins".

Packaging

Individual components	Biresin® CR130 resin (A)	200 kg; 11,5 kg net
	Biresin® CH135-4 hardener (B)	850 kg; 180 kg; 26 kg; 3 kg net

Storage

- Minimum shelf life of Biresin® CR130 resin (A) is 24 month and of Biresin® CH135-4 hardener (B) is 12 month under room conditions (18 - 25°C), when stored in original unopened containers.
- After prolonged storage at low temperature, crystallisation of resin may occur. This is easily removed by warming up for a sufficient time to a maximum of 80°C.
- Containers must be closed tightly immediately after use. The residual material needs to be used up as soon as possible.

Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safetyrelated data.

Disposal considerations

Product Recommendations: Must be disposed of in a special waste disposal unit in accordance with the corresponding regulations.

Packaging Recommendations: Completely emptied packagings can be given for recycling. Packaging that cannot be cleaned should be disposed of as product waste.

Value Bases

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

Legal Notice

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