

Biresin® CR141 with several hardeners

Composite resin system

Description

- Basis Two-component-epoxy-system
- Resin (A) **Biresin® CR141**, epoxy resin, translucent
- Hardener (B) **Biresin® CH172-6**, amine, colourless to brownish
- Hardener (B) **Biresin® CH135-4**, amine, colourless
- Hardener (B) **Biresin® CH150-3**, amine, colourless

Physical Data		Resin (A)		Hardener (B)	
Individual Components		Biresin® CR141	Biresin® CH172-6	Biresin® CH135-4	Biresin® CH150-3
Viscosity, 25°C	mPa.s	~ 8,250	~ 10	~20	~ 20
Density, 25°C	g/ml	~ 1.16	~ 0.94	~ 0.92	~ 0.94
Mixing ratio	in parts by weight	100	18	24	24
		Mixture			
Potlife, 100 g / RT, approx. values	min		350	200	90
Mixed viscosity, 25°C, approx. values	mPa.s		840	1,070	920

Mechanical Data, neat resin specimen (approx. values after 30 min / 90°C)

Biresin® CR141 resin (A)		with hardener (B)	Biresin® CH172-6	Biresin® CH135-4	Biresin® CH150-3
Flexural E-Modulus	ISO 178	MPa	3,350	3,250	3,100
Tensile E-Modulus	ISO 527	MPa	3,050	3,050	2,850
Flexural strength	ISO 178	MPa	140	141	132
Compressive strength	ISO 604	MPa	121	118	111
Tensile strength	ISO 527	MPa	96	92	89
Elongation at break	ISO 527	%	4.9	5.5	6.3
Impact resistance	ISO 179	kJ/m²	17	20	31

Thermal Data, neat resin specimen (approx. values after 30 min / 90°C)

Biresin® CR141 resin (A)		with hardener (B)	Biresin® CH172-6	Biresin® CH135-4	Biresin® CH150-3
Heat distortion temperature	ISO 75B	°C	100	107	109
Glass transition temperature	ISO 11357	°C	96	109	110

Packaging

Individual components	Biresin® CR141 resin (A)	1,000 kg; 200 kg; 10 kg net
	Biresin® CH172-6 hardener (B)	1.9 kg net
	Biresin® CH135-4 hardener (B)	850 kg; 180 kg; 26 kg; 3 kg net
	Biresin® CH150-3 hardener (B)	900 kg; 180 kg; 20 kg; 2,4 kg net

Processing

- The material and processing temperatures should be 18 - 35°C.
- To clean brushes or tools immediately Sika Reinigungsmittel 5 is recommended.
- Additional information are available in "Processing instructions for Composite Resins".

Storage

- Minimum shelf life of Biresin® CR141 resin (A) is 24 month and of Biresin® CH172-6 hardener (B), CH135-4 hardener (B) and CH150-3 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 50-60°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 safety related 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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