



Spar Beam
SikaBiresin® CR131 + CH132-5 / CH132-7

Cowling / Bulkead Firewall
SikaBiresin® CR132 FR + CH132-2 / CH132-5

Wheel Cover
SikaBiresin® CR132 + CH132-2

Bondage of Fuselage and Wings
SikaBiresin® CR132 + CH132-2

Fuselage / Wings / Tailplane
SikaBiresin® CR132 + CH132-7

SikaBiresin® CR132 Product Family FOR COMPOSITES IN THE AIRCRAFT INDUSTRY

The SikaBiresin® CR132 product family has been specially developed for the manufacture of light aircraft and general aviation aircraft. With a glass transition temperature of up to 160 °C, the system can also withstand flight operations in warmer regions of the world, so darkly painted surfaces can also be realized. Four resins and five hardeners are building one product family for more flexibility.

- **SikaBiresin® CR132:** Hand laminating base system with four hardeners and equal mechanical properties
- **SikaBiresin® CR131:** Vacuum infusion version with equal mechanical properties
- **SikaBiresin® CR132 FR and CR134 FR:** Flame retardant versions for hand lay-up

SikaBiresin® CR132

SikaBiresin® CR131

DESCRIPTION

- Hand lay-up system with a glass transition temperature (T_g) up to 160 °C
- Modular system with four standard hardeners for potlife between 60 and 480 minutes
- Excellent mechanical properties
- Particularly suitable for parts that require a good heat resistance, e.g. dark painted aircraft parts affected by solar heating

DESCRIPTION

- Vacuum infusion version of SikaBiresin® CR132
- Same hardeners as for SikaBiresin® CR132
- Equal mechanical properties as SikaBiresin® CR132

COMPOSITE SYSTEMS FOR WET-LAY UP AND INFUSION PREPROCESSING WITH TG 130-160 °C

	A	SikaBiresin® CR132				SikaBiresin® CR131		
		SikaBiresin® CH132-3	SikaBiresin® CH132-5	SikaBiresin® CH132-7	SikaBiresin® CH122-9	SikaBiresin® CH135-4	SikaBiresin® CH132-5	SikaBiresin® CH132-7
Mixing ratio g	A	100			100	100		
	B	28			32	38	26	28
Potlife, RT		60	150	210	480	160	140	260
Mixed viscosity [mPas]		360	550	550	940	540	410	540
Tensile E-Modulus [GPa]		2.65	2.7	2.45	2.45	2.75	2.7	2.7
Tensile strength [MPa]		79	88	78	68	89	86	84
Elongation at break [%]		5.3	6.2	5.7	3.9	5.7	5.9	6.7
Impact resistance [kJ/m ²]		-	-	-	25	27	46	37
T _g [°C]		130	135	135	162	138	136	127

FLAME RETARDANT SOLUTIONS WITH TG ~130 °C

	A	SikaBiresin® CR132 FR	SikaBiresin® CR134 FR
		SikaBiresin® CH132-2	SikaBiresin® CH132-5
Mixing ratio g	A	100	100
	B	20	24
Potlife, RT		60	115
Mixed viscosity [mPas]		1.330	1.000
Tensile E-Modulus [GPa]		3.6	3.05
Tensile strength [MPa]		52	65
Elongation at break [%]		1.6	3.9
Impact resistance [kJ/m ²]		15	21
T _g [°C]		132	132

SikaBiresin® CR132 FR + SikaBiresin® CR134 FR

DESCRIPTION

- Flame retardent versions of SikaBiresin® CR132, mainly for hand lay-up processing
- UL94 V-0 Classification

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.sika.com/advanced-resins



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