

Insulation / Flame protection

Resin 8610C/20S (ex EN88) + Hardener 8930 (ex H3000)

- **2-components polyurethane casting resin**
- **CMR-free ***
- **solvent-free system**
- **hard curing degree**
- **no halogenated flame-retardants**
- **electrically insulating**
- **excellent adhesive properties**
- **ideal for electronic components, e.g. sensors, lithium-ion batteries and transformers**

* not subject to CMR labelling according to section 2 of the safety data sheet

Product specification:

Mixing ratio (weight):	Resin 8610C/20S	100 parts
	Hardener 8930	20 parts
Viscosity (22°C): (At 10 rpm)	Resin 8610C/20S	9'500 – 11'500 mPa·s
	Hardener 8930	450 – 750 mPa·s
	Mixing viscosity	2'500 – 4'500 mPa·s
Density (22°C):	Resin 8610C/20S	1.53 – 1.63 g/cm ³
	Hardener 8930	1.10 – 1.15 g/cm ³
Colour:	Black	
Pot life:	15 – 25 minutes	
	The curing time depends on the thickness of the layer, the casting volume and the temperature.	
Curing time (22°C):	12 – 24 hours	
Final hardness	10 – 14 days	

Physical properties:

Shore-Hardness:	D 35 – 45	ISO 868, DIN 53505
Thermal conductivity:	0.6 W/(m·K)	DIN EN ISO 22007
Glass transition temperature:	-26°C	TMA
Coefficient of expansion:	78.6 ppm/K	< T _g , TMA
	136.3 ppm/K	> T _g , TMA
Shrinkage after curing:	<1 %	
E modulus:	26.1 MPa	DIN EN ISO 527-2
Tensile strength:	7.77 MPa	
Elongation at break:	55.6 %	
Water absorption:	0.3 % (30 days at 23°C)	
Operating temperature:	-55°C up to +165°C	
Flammability classification:	V-0 in 1.5 mm	

Shelf life:	6 months in sealed original containers when stored in dry conditions (15°C to 25°C).
Packaging:	Resin and hardener are offered in separate packaging units.

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TDS_8610C/20S+8930_e/PC/09.05.2023