

Insulation / Flame protection

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

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

Product specification:

Mixing ratio (weight):	Resin 8610	100 parts
	Hardener 8930	20 parts
Viscosity (22°C): (At 10 rpm)	Resin 8610	9'500 – 11'500 mPa·s
	Hardener 8930	450 – 750 mPa·s
	Mixing viscosity	2'500 – 4'500 mPa·s
Density (22°C):	Resin 8610	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 136.3 ppm/K	< Tg, TMA > Tg, 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)	
Insulation class:	F	IEC 60085
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.
RoHS:	We hereby certify that all our products are unexceptional RoHS conform, according to the EU directive 2011/65/EG (RoHS2) and the amendment of Directive 2015/863.

TDS_8610_20+8930_e/PC/16.09.2022