

Insulation / Flame protection

Resin 8600/30 (ex ST 36) + Hardener 8901 (ex 1001)

- 2-components polyurethane casting resin
- solvent-free system
- hard curing degree
- no halogenated flame-retardants
- high electrically insulating
- excellent adhesive properties
- ideal for electronic components, e.g. coils, sensors, PCBs or capacitors

Product specification:

Mixing ratio (weight):	Resin 8600	100 parts
	Hardener 8901	26 parts
Viscosity (22°C):	Resin 8600	300 – 700 mPa·s
	Hardener 8901	160 – 240 mPa·s
	Mixing viscosity	300 – 700 mPa·s
Density (22°C):	Resin 8600	0.94 - 0.98 g/cm ³
	Hardener 8901	1.20 - 1.25 g/cm ³
Colour:	Brown transparent	
Pot life:	25 – 35 minutes	
	The curing time depends on the thickness of the layer, the casting volume and the temperature.	
Curing time (22°C):	16 – 30 hours	
Final hardness	10 – 14 days	

Physical properties:

Shore-Hardness:	A 20 – 30	ISO 868, DIN 53505
Thermal conductivity:	0.2 W/(m·K)	DIN EN ISO 22007
Glass transition temperature:	0.2 °C	TMA
Coefficient of expansion:	274.3 ppm/K 244.6 ppm/K	< Tg, TMA > Tg, TMA
Shrinkage after curing:	<1 %	
Water absorption:	0.5 % (30 days at 23°C)	
Insulation class:	A	IEC 60085
Operating temperature:	-60°C up to +110°C	

Electrical properties:

Dielectrical strength:	24 kV/mm	IEC 60243-1, VDE 0303, TI.2
Volume resistance:	10 ¹⁴ Ω·cm (23°C/ 50% r.F.)	IEC 60243-1, VDE0303, TI.30
Surface resistance:	10 ¹⁴ Ω (23°C/ 50% r.F.)	IEC 60243-1, VDE0303, TI.30
Dielectric constant (ε _r):		
at 50 Hz, 23 °C	5.9	IEC 60250,
at 1 KHz, 23 °C	6.8	VDE 0303, TI.4
at 1 MHz, 23 °C	8.3	
Dissipation factor:		
(tan δ)		
at 50 Hz, 23 °C	0.08	IEC 60250,
at 50 Hz, 50°C	0.12	VDE 0303, TI.4
at 50 Hz, 80°C	0.15	
Coparative Tracking Index:	CTI 600	IEC 60112, VDE 0303, TI.1

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 products are unexceptional RoHS conform according to the EU-directive 2011/65/EG (RoHS2) and the amendment of Directive 2015/863.

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