

Insulation / Flame protection

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

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

Product specification:

Mixing ratio (weight):	Resin 8600/30N	100 parts
	Hardener 8901	26 parts
Viscosity (22°C):	Resin 8600/30N	300 – 700 mPa·s
	Hardener 8901	160 – 240 mPa·s
	Mixing viscosity	300 – 700 mPa·s
Density (22°C):	Resin 8600/30N	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	< T _g , TMA
	244.6 ppm/K	> T _g , TMA
Shrinkage after curing:	<1 %	
Water absorption:	0.5 % (30 days at 23°C)	
Operating temperature:	-60 °C up to +110 °C	

Electrical properties:

Dielectric 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	
Comparative 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.

Our technical advice, whether verbal, in writing or by way of trials - is given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. It does not release you from the obligation to test the products supplied by us to their suitability for the intended processes and uses. The application, use and processing of the products are beyond our control and therefore, entirely your own responsibility. Should in spite of this, liability be established by us and used by you. We will, of course, provide products of consistent quality within the scope of our General Conditions of Sale and Delivery.

TDS_8600/30N+8901_e/PC/28.02.2023