Insulation / Flame protection

Resin 8601/30 (ex TG 68) + Hardener 8973 (ex 1073)

- **2-components polyurethane casting resin**
- **solvent-free system**
- **soft curing degree**
- **no halogenated flame-retardants**
- **high electrically insulating**
- **excellent adhesive properties**
- **wide operating temperature range**
- **suitable for low temperatures applications**
- **ideal for electronic components, e.g., coils, sensors, PCBs or capacitors**

Product specification:

Mixing ratio (weight):	Resin 8601 Hardener 8973	100 parts 20 parts
Viscosity (22°C): (at 10 rpm)	Resin 8601 Hardener 8973 Mixing viscosity	3'500 – 4'000 mPa·s 15 – 35 mPa·s 1'800 – 2'400 mPa·s
Density (22°C):	Resin 8601 Hardener 8973	0.90 - 0.95 g/cm³ 1.20 - 1.25 g/cm³
Colour:	Black	
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 25 – 35	ISO 868, DIN 53505
Thermal conductivity:	0.3 W/(m·K)	DIN EN ISO 22007
Glass transition temperature:	-69.1 °C	TMA
Coefficient of expansion:	101.4 ppm/K 222.4 ppm/K	< Tg, TMA > Tg, TMA
Shrinkage after curing:	<1 %	
Water absorption:	0.2 % (30 days at 23°C)	
Insulation class:	B	IEC 60085
Operating temperature:	-80°C up to +130°C	
Flammability classification:	HB	

Electrical properties:

Dielectrical strength:	25 kV/mm	IEC 60243-1, VDE 0303, Tl.2
Volume resistance:	10^{14} Ω·cm (23°C/ 50% r.F.)	IEC 60243-1, VDE0303, Tl.30
Surface resistance:	10^{16} Ω (23°C/ 50% r.F.)	IEC 60243-1, VDE0303, Tl.30
Dielectric constant (ε_r): at 50 Hz, 23 °C at 1 KHz, 23 °C at 1 MHz, 23 °C	 3.2 3.0 2.7	 IEC 60250, VDE 0303, Tl.4
Dissipation factor: (tan δ) at 50 Hz, 23 °C	 0.02	IEC 60250, VDE 0303, Tl.4
Coparative Tracking Index:	CTI 600	IEC 60112, VDE 0303, Tl.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.