

## **PUre Isolation TG 68/30**

---

- **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**
- 

✓ The casting resin is used with **PUre Hardener 1073**

✓ Product name explanations:

PUre Isolation	= product line
TG 68	= product name
/30	= potlife configuration in min

---

### **Product specification:**

Operating temperature:	-80°C up to +130°C	
Flammability classification:	HB	
Mixing ratio:	100 parts PUre Isolation TG 68/30 20 parts PUre Hardener 1073	
Viscosity (22°C): (at 10 rpm)	resin: PUre Isolation TG 68/30 hardener: PUre Hardener 1073 mixing viscosity	3.500 - 4.000 mPa*s 15 - 35 mPa*s 1.800 - 2.400 mPa*s
Density (22°C):	resin: PUre Isolation TG 68/30 hardener: PUre Hardener 1073	0,90 - 0,95 g/cm <sup>3</sup> 1,20 - 1,25 g/cm <sup>3</sup>
Colour:	black, blue, or as required	
Potlife:	30 - 45 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 - 30	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

**Electrical properties:**

Dielectrical strength:	25 kV/mm	IEC 60243-1, VDE 0303, TI.2
Volume resistance:	10 <sup>14</sup> Ω*cm (23°C/ 50% r.F.)	IEC 60243-1, VDE0303, TI.30
Surface resistance:	10 <sup>16</sup> Ω (23°C/ 50% r.F.)	IEC 60243-1, VDE0303, TI.30
Dielectric constant (ε <sub>r</sub> ):		
at 50 Hz, 23 °C	3,2	IEC 60250,
at 1 KHz, 23 °C	3,0	VDE 0303, TI.4
at 1 MHz, 23 °C	2,7	
Dissipation factor:		IEC 60250,
(tan δ)		VDE 0303, TI.4
at 50 Hz, 23 °C	0,02	
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.