

PUre Isolation ST 36/30

- 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

✓ The casting resin is used with **PUre Hardener 1001**

✓ Product name explanations:

PUre Isolation	= product line
ST 36	= product name
/30	= potlife configuration in min

Product specification:

Operating temperature:	-60°C up to +110°C	
Flammability classification:		
Mixing ratio:	100 parts PUre Isolation ST 36/30 26 parts PUre Hardener 1001	
Viscosity (22°C):	resin: PUre Isolation ST 36/30	300 - 700 mPa*s
	hardener: PUre Hardener 1001	160 - 240 mPa*s
	mixing viscosity	300 - 700 mPa*s
Density (22°C):	resin: PUre Isolation ST 36/30	0,94 - 0,98 g/cm ³
	hardener: PUre Hardener 1001	1,20 - 1,25 g/cm ³
Colour:	black, blue, or as required	
Potlife:	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	< Tg, TMA
	244,6 ppm/K	> Tg, TMA
Shrinkage after curing:	<1 %	
Water absorption:	0,5 % (30 days at 23°C)	
Insulation class:	A	IEC 60085

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
	at 1 KHz, 23 °C	6,8
	at 1 MHz, 23 °C	8,3
Dissipation factor: (tan δ)	at 50 Hz, 23 °C	0,08
	at 50 Hz, 50°C	0,12
	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.