

## PUre Thermal Conductivity GF 92

- 2-components polyurethane casting resin
- solvent-free system
- high thermal conductivity and electrically insulating
- no metallic fillers
- no halogenated flame-retardants
- ideal for heat-reduction of winding goods, electric motors, accumulators and high-performance components

- ✓ The casting resin is used with **PUre Hardener G0492**
- ✓ Product name explanations:
  - PUre Flame Resistance = product line
  - GF 92 = product name

### Product specification:

Operating temperature:	-55°C up to +165°C	
Flammability classification:	V-0 in 4,0 mm	
Mixing ratio:	100 volume parts PUre Thermal Conductivity GF 92 100 volume parts PUre Hardener G4092	
Viscosity (22°C):	resin: PUre Thermal Conductivity GF 92	70.000 - 90.000 mPa*s
	hardener: PUre Hardener G4092	80.000 - 100.000 mPa*s
	mixing viscosity	75.000 - 95.000 mPa*s
Density (22°C):	resin: PUre Thermal Conductivity GF 92	1,40 - 1,50 g/cm <sup>3</sup>
	hardener: PUre Hardener G4092	1,40 - 1,50 g/cm <sup>3</sup>
Colour:	nature	
Potlife:	10 - 60 minutes	
Curing time (22°C):	24 - 48 hours	
Final hardness	10 - 14 days	

**Physical properties:**

Shore-Hardness:	A 40 - 50	ISO 868, DIN 53505
Thermal conductivity:	2,0 W/m*K	DIN EN ISO 22007
Glass transition temperature:	-62,3°C	TMA
Coefficient of expansion:	29,6 ppm/K	< Tg, TMA
	183,4 ppm/K	> Tg, TMA
Shrinkage after curing:	<1 %	
Water absorption:	0,4 % (30 days at 23°C)	
Insulation class:	F	IEC 60085

**Electrical properties:**

Dielectrical strength:	IEC 60243-1, VDE 0303, TI.2
Volume resistance:	IEC 60243-1, VDE0303, TI.30
Surface resistance:	
Dielectric constant ( $\epsilon_r$ ):	
at 50 Hz, 23 °C	IEC 60250,
at 1 KHz, 23 °C	VDE 0303, TI.4
at 1 MHz, 23 °C	
Dielectric dissipation factor:	
(tan $\delta$ )	IEC 60250,
at 50 Hz, 23 °C	VDE 0303, TI.4
Coparative Tracking Index:	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 our products are unexceptional RoHS conform, according to the EU directive 2011/65/EG (RoHS2) and the amendment of Directive 2015/863.