

## PUre Flame Resistance BA 92/30

- 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. sensors of all sorts, coils, PCBs or capacitors

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

✓ Product name explanations:

PUre Isolation                   = product line  
BA 92                               = product name  
/30                                 = potlife configuration in min

### Product specification:

Operating temperature:	-40°C up to +130°C	
Flammability classification:	HB	
Mixing ratio:	100 parts PUre Flame Resistance EN XX/XX XX parts PUre Hardener XXXX	
Viscosity (22°C):	resin: PUre Flame Resistance EN XX/XX	9.500 - 11.500 mPa*s
	hardener: PUre Hardener XXXX	15 - 25 mPa*s
	mixing viscosity	1.500 - 2.500 mPa*s
Density (22°C):	resin: PUre Flame Resistance EN XX/XX	1,53 - 1,63 g/cm <sup>3</sup>
	hardener: PUre Hardener XXXX	1,20 - 1,25 g/cm <sup>3</sup>
Colour:	black, blue, or as required	
Potlife:	15 - 25 minutes	
Curing time (22°C):	12 - 24 hours	
Final hardness	10 - 14 days	

**Physical properties:**

Shore-Hardness:	D 30 - 43	ISO 868, DIN 53505
Thermal conductivity:	0,6 W/m*K	DIN EN ISO 22007
Glass transition temperature:	-23,8°C	TMA
Coefficient of expansion:	73,5 ppm/K	< Tg, TMA
	122,4 ppm/K	> Tg, TMA
Shrinkage after curing:	<1 %	
Water absorption:	0,3 % (30 days at 23°C)	
Insulation class:	B	IEC 60085
E-Modulus:	26,1 MPa	DIN EN ISO 527-2
Tensile strength:	7,77 MPa	
Elongation at break:	55,6 %	

**Electrical properties:**

Dielectrical strength:	30 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.)	
Dielectric constant (ε <sub>r</sub> ):	at 50 Hz, 23 °C	5,7
	at 1 KHz, 23 °C	5,1
	at 1 MHz, 23 °C	4,9
Dielectric dissipation factor: (tan δ)		IEC 60250, VDE 0303, TI.4
	at 50 Hz, 23 °C	0,09
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.