

## PUre Flame Resistance EN 88/20

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- 2-components polyurethane casting resin
  - solvent-free system
  - no metallic fillers
  - no halogenated flame-retardants
  - electrically insulating
  - excellent adhesive properties
  - ideal for electronic components, e.g. sensors, lithium-ion batteries and transformers
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- ✓ The casting resin is used with **PUre Hardener 1001**
  - ✓ Product name explanations:
    - PUre Flame Resistance = product line
    - EN 88 = product name
    - /20 = potlife configuration in min
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### Product specification:

Operating temperature:	-55°C up to +165°C	
Flammability classification:	V-0 in 1,5 mm	
Mixing ratio:	100 parts PUre Flame Resistance EN 88/20 14 parts PUre Hardener 1001	
Viscosity (22°C): (At 10 rpm)	resin: PUre Flame Resistance EN 88/20 hardener: PUre Hardener 1001 mixing viscosity	9.500 - 11.500 mPa*s 160 - 240 mPa*s 4.000 - 5.000 mPa*s
Density (22°C):	resin: PUre Flame Resistance EN 88/20 hardener: PUre Hardener 1001	1,53 - 1,63 g/cm <sup>3</sup> 1,20 - 1,25 g/cm <sup>3</sup>
Colour:	black, blue, or as required	
Potlife:	18 - 25 minutes The curing time depends on the thickness of the layer, the casting volume and the temperature.	
Curing time (22°C):	12 - 24 hours	
Final hardness	10 - 14 days	

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**Physical properties:**

Shore-Hardness:	D 45 - 55	ISO 868, DIN 53505
Thermal conductivity:	0,6 W/m*K	DIN EN ISO 22007
Glass transition temperature:	-2,0°C	TMA
Coefficient of expansion:	97,5 ppm/K	< Tg, TMA
	167,0 ppm/K	> Tg, TMA
Shrinkage after curing:	<1 %	
Water absorption:	0,3 % (30 days at 23°C)	
Insulation class:	F	IEC 60085

**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.)	IEC 60243-1, VDE0303, TI.30
Dielectric constant (ε <sub>r</sub> ):		
at 50 Hz, 23 °C	5,7	IEC 60250,
at 1 KHz, 23 °C	5,1	VDE 0303, TI.4
at 1 MHz, 23 °C	4,9	
Dielectric dissipation factor:		IEC 60250,
(tan δ)		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 our products are unexceptional RoHS conform, according to the EU directive 2011/65/EG (RoHS2) and the amendment of Directive 2015/863.