

PUre Flame Resistance ST 13/20

- 2-components polyurethane casting resin
- solvent-free and silicon-free system
- CRM free
- hard curing degree
- no halogenated flame-retardants
- self-extinguishing properties
- electrically insulating
- excellent adhesive properties
- ideal for electronic components, e.g. sensors, lithium-ion batteries and transformers

✓ The casting resin is used with **PUre Hardener 3000**

✓ Product name explanations:

PUre Flame Resistance = product line

ST 13 = product name

/20 = potlife configuration in min

Product specification:

Operating temperature:	-40°C up to +130°C	
Flammability classification:	V-0 in 4,0 mm	
Mixing ratio:	100 parts PUre Flame Resistance ST 13/20 25 parts PUre Hardener 3000	
Viscosity (22°C):	resin: PUre Flame Resistance ST 13/20	3.500 - 4.500 mPa*s
	hardener: PUre Hardener 3000	450 - 750 mPa*s
	mixing viscosity	1.200 - 1.800 mPa*s
Density (22°C):	resin: PUre Flame Resistance ST 13/20	1,60 - 1,65 g/cm ³
	hardener: PUre Hardener 3000	1,10 - 1,15 g/cm ³
Colour:	nature or as required	
Potlife:	15 - 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 30 - 40	ISO 868, DIN 53505
Thermal conductivity:	0,6 W/m*K	DIN EN ISO 22007
Glass transition temperature:	-25,0 °C	TMA
Coefficient of expansion:	135,4 ppm/K 153,4 ppm/K	< Tg, TMA > Tg, TMA
Shrinkage after curing:	<1 %	
Water absorption:	0,3 % (30 days at 23°C)	
Insulation class:	B	IEC 60085

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.