

PUre Flame Resistance RM 13/10

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

✓ The casting resin is used with **PUre Hardener 1073**

✓ Product name explanations:

PUre Flame Resistance = product line

RM 13 = product name

/10 = potlife configuration in min

Product specification:

Operating temperature:	-40°C up to +145°C	
Flammability classification:	V-0 in 3,0 mm	
Mixing ratio:	100 parts PUre Flame Resistance RM 13/10 43 parts PUre Hardener 1073	
Viscosity (22°C):	resin: PUre Flame Resistance RM 13/10	3.000 - 4.500 mPa*s
	hardener: PUre Hardener 1073	15 - 35 mPa*s
	mixing viscosity	250 - 350 mPa*s
Density (22°C):	resin: PUre Flame Resistance RM 13/10	1,45 - 1,52 g/cm ³
	hardener: PUre Hardener 1073	1,20 - 1,25 g/cm ³
Colour:	black, blue, or as required	
Potlife:	7 - 12 minutes	
	The curing time depends on the thickness of the layer, the casting volume and the temperature.	
Curing time (22°C):	8 - 18 hours	
Final hardness	10 - 14 days	

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Physical properties:

Shore-Hardness:	D 85 - 90	ISO 868, DIN 53505
Thermal conductivity:	0,7 W/m*K	DIN EN ISO 22007
Glass transition temperature:	56,0 °C	TMA
Coefficient of expansion:	47,1 ppm/K	< Tg, TMA
	143,4 ppm/K	> Tg, TMA
Shrinkage after curing:	<1 %	
Water absorption:	0,3 % (30 days at 23°C)	
Insulation class:	B	IEC 60085

Electrical properties:

Dielectrical strength:	31 kV/mm	IEC 60243-1, VDE 0303, TI.2
Volume resistance:	10 ¹⁵ Ω*cm (23°C/ 50% r.F.)	IEC 60243-1, VDE0303, TI.30
Surface resistance:	10 ¹⁶ Ω (23°C/ 50% r.F.)	IEC 60243-1, VDE0303, TI.30
Dielectric constant (ε _r):		
at 50 Hz, 23 °C	5,8	IEC 60250,
at 1 KHz, 23 °C	5,1	VDE 0303, TI.4
at 1 MHz, 23 °C	4,3	
Dielectric dissipation factor:		IEC 60250,
(tan δ)		VDE 0303, TI.4
at 50 Hz, 23 °C	0,12	
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.