Technical Data Sheet

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FLAMMADUR® E 292

Protective PUR coating and sealing compound

Description

FLAMMADUR® E 292 is a flame-resistant, flexible, cold-curing polyurethane mixture. It consists of two components and is designed for use in temperature ranges from -40 to +90 °C. It is particularly suitable for use as a potting resin with electrically insulating properties in heavy-duty applications. It is applied as a humidity-resistant, gas and water pressure-tight coating, casting or trowelling (filler) compound for electrical components, including high-voltage components.

Delivery and Packaging

FLAMMADUR® E 292		
Packaging	tin	Other sizes on request.
Size	1 kg	
Article number		
	4125671	

Please contact us for further information:
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		FLAMMADUR® E 292 (resin)	FLAMMADUR® E 292 (hardener)
Colour/odour		brown/odourless	
Density (+20 °C)		1.62 g/cm³	1.22 g/cm³
Mixed density		1.58 g/cm³	
Mixing ratio (wt%)		91 parts	9 parts
Electric strength		> 4 kV/mm	> 1.33 kV/mm
		> 4 kV	> 4 kV
Thermal conductivity [W/m·K]		t = 3 mm	t = 5 mm
	25 °C	0.620	0.618
	40 °C	0.592	0.598
	60 °C	0.561	0.594
	80 °C	0.507	0.571
Application temperature		> +5 °C / rel. humidity < 80 %	
Viscosity		approx. 40 000 mPa·s	approx. 110 mPa·s
Viscosity of the mixture		approx. 20 000 mPa·s	
Waterproofness		2.5 bar	
Gas tightness		technically tight depending on layer thickness up to 1 bar helium gas pressure	
Pot life of the mixture (Bookfield RVT, +23 °C, 300 g)		60 min	
Chem. curing of the mixture		16–24 hrs	
Flash point		> 200 °C	
Application instructions		The casting compound is prepared by carefully mixing the hardener component into the resin (recognisable by a uniformly coloured casting compound). The finished mixture – depending on the ambient temperature – can be worked for approx. 40–60 minutes (depending on batch size and temperature). Care must be taken that neither the components nor the uncured mixture come into contact with moisture of any type. Moisture triggers unwanted chemical reactions, causes the material to foam and changes the property values.	

Storage	+10 and +40 °C	
	12 months	6 months (determining factor)
Safety information	Further information can be found in the safety data sheet.	

Moulding material

Shore hardness (DIN 53505)	88–93 Shore A; 45–50 Shore D
Post-curing of the samples	24 hrs / 80 °C
Burning behaviour according to UL 94	VO
Creepage resistance	CTI 600 (DIN/IEC 112)
Chemical resistance	resistant to liquids on the basis of DIN EN ISO 2812-1 and DIN EN ISO 2812-2

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