

Specifications polyurethane moulding resin EH-E72

EH-E72 is a high-grade resin for moulding electrical components. It is highly suitable for moulding applications, where the electronics are in moulding housing. The material is free from solvents, it is elastic, bonds well to many surfaces, has a good resistance to chemicals, and little shrinkage during processing. The standard colour of this material is light-brown, but that can be adjusted by adding pigments.

Mechanical properties

Density		1.41	g / cm ³
Tensile strength	DIN53504 S2	4.5	MPa
Rupture strain	DIN53504 S2	75	%
Shore hardness	DIN53505	90 (40)	A (D)
Lin. expansion coefficient (20 ... 100 °C)	VDE0304/1	228 10 ⁻⁶	K ⁻¹
Heat conduction	DIN52612	0.6	W / Km
Maximum continuous heat resistance		90	°C
Glass transition temperature	DIN53445	15	°C
Water absorption	EN50028	0.6	% (30 days, 23°C)

Electrical properties

Surface resistance	DIN534482	4 10 ¹² 1 10 ¹² 3 10 ¹²	Ω (dry) Ω (4 days 80% RH) Ω (24 hours in water)
Specific resistance	DIN53482	1.0 10 ¹⁴	Ω cm (25°C, 100V)
Breakdown voltage	VDE0351	20	kV / mm
Dielectric constant	DIN53483	5.1	(25°C, 50Hz)
Dielectric loss factor	DIN53483	0.035	
Leakage current resistance	DIN53480	KA3c/600	

Our advice regarding the technical application is given to the best of our knowledge but only ever applies as a non-binding indication. The use of the products is beyond our control, and therefore comes under your own responsibility.