

Specifications polyurethane moulding resin EH-E83

EH-E83 is a high-grade resin for moulding electrical components. Suitable for all possible moulding applications. The material is free from solvents, it is tough-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		1.37	g / cm ³
Tensile strength	DIN53504 S2	5	MPa
Rupture strain	DIN53504 S2	105	%
Tear strength	DIN53515	25	kN / m
Shore hardness	DIN53505	95 (45)	A (D)
Lin. expansion coefficient (20 ... 100 °C)	VDE0304/1	136 10 ⁻⁶	K-1
Heat conduction	DIN52612	0.6	W / Km
Maximum continuous heat resistance		120	°C
Glass transition temperature	DIN53445	38	°C
Water absorption	EN50028	0.2	% (24 hr, 23°C)

Electrical properties

Surface resistance	DIN534482	2 10 ¹³ 9 10 ¹³ 3 10 ¹³	Ω (dry) Ω (4 days 80% RH) Ω (24 hours in water)
Specific resistance	DIN53482	2.0 10 ¹⁶	Ω cm (25°C, 100V)
Breakdown voltage	VDE0351	25	kV / mm
Electric Strength	EN50028 - 1987	4	kV (120°C, 50Hz)
Dielectric constant	DIN53483	4.4	(25°C, 50Hz)
Dielectric loss factor	DIN53483	0.0356 0.0780	(25°C, 50Hz) (50°C, 50Hz)
CTI Index	IEC112 - 1979	CTI 600	
Leakage current resistance	DIN53480	3c/600	KA

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.