

Hexion Keripol® RZ 1141 Polyester Molding Compound, High Surface Quality

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Polyester, TS , Thermoset Polyester Glass Filled BMC

Material Notes:

Polyester molding compound, organically/inorganically filled, glass fiber reinforced, styrene free, very slight post shrinkage, processing shrinkage as for phenolic molding compounds, high surface quality. Application areas: Oven strips. This product was originally produced by Bakelite AG, now a part of Hexion.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexion-Keripol-RZ-1141-Polyester-Molding-Compound-High-Surface-Quality.php

Physical Properties	Metric	English	Comments
Density	1.88 g/cc	0.0679 lb/in ³	ISO 1183
Apparent Bulk Density	0.810 g/cc	0.0293 lb/in ³	ISO 60
Linear Mold Shrinkage, Flow	0.0055 cm/cm	0.0055 in/in	Compression molding; ISO 2577

Mechanical Properties	Metric	English	Comments
Flexural Strength	95.0 MPa	13800 psi	2 mm/min; ISO 178
Flexural Modulus	9.50 GPa	1380 ksi	ISO 178
Charpy Impact Unnotched	0.750 J/cm ² @Temperature 23.0 °C	3.57 ft-lb/in ² @Temperature 73.4 °F	ISO 179-1/2 eU
Charpy Impact, Notched	0.160 J/cm ² @Temperature 23.0 °C	0.761 ft-lb/in ² @Temperature 73.4 °F	ISO 179-1/2 eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 8.0 MPa	95.0 °C	203 °F	ISO 75-2
Shrinkage	0.200 % @Temperature 110 °C	0.200 % @Temperature 230 °F	Compression molding; ISO 2577

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	IEC 60093
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	IEC 60093
Dielectric Constant	6.0 @Frequency 100 Hz	6.0 @Frequency 100 Hz	IEC 60250

Electrical Properties	25.0 kV/mm Metric	635 kV/in English	Comments
	@Thickness 1.00 mm	@Thickness 0.0394 in	
	0.017	0.017	
Dissipation Factor	@Frequency 100 Hz	@Frequency 100 Hz	IEC 60250
Comparative Tracking Index	600 V	600 V	Test liquid A; IEC 60112

Descriptive Properties	Value	Comments
Moisture Absorption	80 mg	ISO 62, 24 hours at 23Â°C

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