

Raschig Group EPOXIDUR® 3585 EP Epoxy, Molded, Glass Fiber Filler

Category : Polymer , Thermoset , Epoxy , Epoxy, Molded, Glass Fiber Filler

Material Notes:

Glass-fiber reinforced and inorganically filled epoxy molding compound. Good mechanical strength, very good electrical isolation properties and dimensional stability even at high temperatures, excellent cracking resistance regarding thermal shock. Rotors, magnetic coil coating This product meets the allowed upper limits for heavy metals and PCAs and also conforms to the requirements of the EU directives 2002/95 (RoHS), 2002/96 (WEEE) and 2006/122 (PFOS). Processing: Injection and compression molding Information provided by Raschig Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_Raschig-Group-EPOXIDUR-3585-EP-Epoxy-Molded-Glass-Fiber-Filler.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.85 - 1.95 g/cc	1.85 - 1.95 g/cc	ISO 1183
Apparent Bulk Density	0.700 - 1.00 g/cc	0.0253 - 0.0361 lb/in ³	ISO 60
Water Absorption	<= 0.100 % @Temperature 23.0 °C, Time 86400 sec	<= 0.100 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62
Linear Mold Shrinkage, Flow	0.00300 - 0.00500 cm/cm	0.00300 - 0.00500 in/in	Injection and Compression; ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength	100 - 120 MPa	14500 - 17400 psi	Injection and Compression; ISO 527
Modulus of Elasticity	15.0 - 18.0 GPa	2180 - 2610 ksi	Injection and Compression; ISO 527
Flexural Strength	190 - 210 MPa	27600 - 30500 psi	Injection and Compression; ISO 178
Flexural Modulus	16.0 - 19.0 GPa	2320 - 2760 ksi	Injection and Compression; ISO 178
Compressive Strength	200 - 220 MPa	29000 - 31900 psi	ISO 604
Charpy Impact Unnotched	1.50 - 1.80 J/cm ²	7.14 - 8.57 ft-lb/in ²	Injection and Compression; ISO 179/1eU
Charpy Impact, Notched	0.400 - 0.600 J/cm ²	1.90 - 2.86 ft-lb/in ²	Injection and Compression; ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	15.0 - 20.0 µm/m-°C @Temperature 50.0 - 150 °C	8.33 - 11.1 µin/in-°F @Temperature 122 - 302 °F	ISO 11359-2
Thermal Conductivity		2.78 - 4.16 BTU-in/hr-	ASTM E1461

Thermal Properties	0.400 - 0.600 W/m-K Metric	ft ² ·°F English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	>= 200 °C	>= 392 °F	ISO 75-A
Deflection Temperature at 8.0 MPa	150 - 170 °C	302 - 338 °F	ISO 75-C
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	
Shrinkage	<= 0.0500 % @Temperature 110 °C, Time 605000 sec	<= 0.0500 % @Temperature 230 °F, Time 168 hour	Post shrinkage; ISO 2577

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 - 1.00e+16 ohm-cm	1.00e+15 - 1.00e+16 ohm-cm	IEC 60093
Surface Resistance	1.00e+14 - 1.00e+15 ohm	1.00e+14 - 1.00e+15 ohm	IEC 60093
Dielectric Constant	4.00 - 6.00 @Frequency 100 Hz	4.00 - 6.00 @Frequency 100 Hz	IEC 60250
	4.00 - 6.00 @Frequency 1.00e+6 Hz	4.00 - 6.00 @Frequency 1.00e+6 Hz	IEC 60250
Dielectric Strength	20.0 - 30.0 kV/mm	508 - 762 kV/in	IEC 60243-1
Dissipation Factor	0.0100 - 0.0200 @Frequency 100 Hz	0.0100 - 0.0200 @Frequency 100 Hz	IEC 60250
	0.0200 - 0.0400 @Frequency 1.00e+6 Hz	0.0200 - 0.0400 @Frequency 1.00e+6 Hz	IEC 60250
Arc Resistance	180 - 240 sec	180 - 240 sec	ASTM D495
Comparative Tracking Index	250 V	250 V	IEC 60112

Processing Properties	Metric	English	Comments
Shelf Life	6.00 Month @Temperature <=20.0 °C	6.00 Month @Temperature <=68.0 °F	

Descriptive Properties	Value	Comments
Glow wire flammability test	900/1	IEC 60695 2-12

Descriptive Properties	Value	Comments
Glow wire ignitability test	900/1	IEC 60695 2-13
Water Absorption	<10 mg	24 hr, 23°C; ISO 62

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