

Raschig Group 3505 Epoxy

Category : Polymer , Thermoset , Epoxy , Epoxy, Molded, Glass Fiber Filler , Filled/Reinforced Thermoset

Material Notes:

Glass-fiber reinforced epoxy molding compound. Good mechanical strength, very good electrical isolation properties and dimensional stability even at high temperatures. 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
Primary application: Connectors, Thermocouples, Sensors, Resistors, Potentiometers Information provided by the Raschig Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_Raschig-Group-3505-Epoxy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.90 - 2.10 g/cc	1.90 - 2.10 g/cc	ISO 1183
Apparent Bulk Density	0.850 - 1.00 g/cc	0.0307 - 0.0361 lb/in ³	ISO 60
Water Absorption	<= 0.10 % @Temperature 23.0 °C, Time 86400 sec	<= 0.10 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62
Linear Mold Shrinkage	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	(longitudinal) Injection and Compression; ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	60.0 - 70.0 MPa	8700 - 10200 psi	Injection and Compression; ISO 527
Modulus of Elasticity	15.0 - 18.0 GPa	2180 - 2610 ksi	Injection and Compression; ISO 527
Flexural Strength	120 - 140 MPa	17400 - 20300 psi	Injection and Compression; ISO 178
Flexural Modulus	14.0 - 16.0 GPa	2030 - 2320 ksi	Injection and Compression; ISO 178
Compressive Strength	150 - 200 MPa	21800 - 29000 psi	ISO 604
Charpy Impact Unnotched	0.800 - 1.20 J/cm ² @Temperature 23.0 °C	3.81 - 5.71 ft-lb/in ² @Temperature 73.4 °F	Injection and Compression; ISO 179/1eU
Charpy Impact, Notched	0.250 - 0.350 J/cm ² @Temperature 23.0 °C	1.19 - 1.67 ft-lb/in ² @Temperature 73.4 °F	Injection and Compression; ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	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
		4.16 - 5.55 BTU-in/hr-	

Thermal Conductivity Thermal Properties	0.600 - 0.800 W/m-K Metric	ft ² -°F English	ASTM E1461 Comments
Deflection Temperature at 1.8 MPa (264 psi)	>= 200 °C	>= 392 °F	Injection; ISO 75-A
Deflection Temperature at 8.0 MPa	170 - 190 °C	338 - 374 °F	Injection; ISO 75-C
Flammability, UL94	V-0	V-0	
	@Thickness 5.00 mm	@Thickness 0.197 in	
Shrinkage	<= 0.050 %	<= 0.050 %	Post-shrinkage; ISO 2577
	@Temperature 110 °C, Time 605000 sec	@Temperature 230 °F, Time 168 hour	

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	4.0 - 6.0	4.0 - 6.0	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	5.0 - 7.0	5.0 - 7.0	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	25.0 - 35.0 kV/mm	635 - 889 kV/in	IEC 60243-1
Dissipation Factor	0.010 - 0.030	0.010 - 0.030	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.010 - 0.030	0.010 - 0.030	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	>= 250 V	>= 250 V	CTI; IEC 60112

Processing Properties	Metric	English	Comments
Shelf Life	6.00 Month	6.00 Month	
	@Temperature 15.0 - 25.0 °C	@Temperature 59.0 - 77.0 °F	

Descriptive Properties	Value	Comments
Arc Resistance	4 Stufe	ASTM D495
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	ISO 62; 24h / 23°C

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