

Raschig Group 3572 Epoxy

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

Material Notes:

Glass-fiber reinforced epoxy molding compound. Good mechanical strength and electrical strength, enhanced elasticity for ensuring good sealing under extreme heat and/or humidity, good chemical resistance, exceptional metal adhesion, very good flame retardance. Suitable for pelleting and preheating. 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: Transfer molding Primary application: Embedding metal parts for metallurgical tests. Information provided by the Raschig Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_Raschig-Group-3572-Epoxy.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.10 - 2.20 g/cc	2.10 - 2.20 g/cc	ISO 1183
Apparent Bulk Density	1.00 - 1.15 g/cc	0.0361 - 0.0415 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	0.0025 - 0.0045 cm/cm	0.0025 - 0.0045 in/in	(longitudinal); ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength	50.0 - 70.0 MPa	7250 - 10200 psi	ISO 527
Flexural Strength	100 - 120 MPa	14500 - 17400 psi	ISO 178
Flexural Modulus	11.0 - 13.0 GPa	1600 - 1890 ksi	ISO 178
Compressive Strength	150 - 200 MPa	21800 - 29000 psi	ISO 604
Charpy Impact Unnotched	4.00 - 6.00 J/cm ² @Temperature 23.0 °C	19.0 - 28.6 ft-lb/in ² @Temperature 73.4 °F	ISO 179/ 1eU
Charpy Impact, Notched	0.200 - 0.300 J/cm ²	0.952 - 1.43 ft-lb/in ²	ISO 179/1EA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	10.0 - 40.0 µm/m-°C @Temperature 50.0 - 150 °C	5.56 - 22.2 µin/in-°F @Temperature 122 - 302 °F	Post shrinkage; ISO 11359-2
Thermal Conductivity	0.500 - 0.700 W/m-K	3.47 - 4.86 BTU-in/hr- ft ² -°F	ASTM E1461
Deflection Temperature at 1.8 MPa	110 - 130 °C	230 - 266 °F	

(264 psi) Thermal Properties	Metric	English	ISO 75-A Comments
Deflection Temperature at 8.0 MPa	100 - 120 °C	212 - 248 °F	ISO 75-C
Flammability, UL94	V-0	V-0	
	@Thickness 0.700 mm	@Thickness 0.0276 in	
Shrinkage	<= 0.0500 %	<= 0.0500 %	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+14 - 1.00e+15 ohm-cm	1.00e+14 - 1.00e+15 ohm-cm	IEC 60093
Surface Resistance	1.00e+13 - 1.00e+14 ohm	1.00e+13 - 1.00e+14 ohm	IEC 60093
Dielectric Constant	4.0 - 6.0	4.0 - 6.0	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	4.0 - 6.0	4.0 - 6.0	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	15.0 - 20.0 kV/mm	381 - 508 kV/in	IEC 60243-1
Dissipation Factor	0.010 - 0.020	0.010 - 0.020	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.020 - 0.030	0.020 - 0.030	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	>= 325 V	>= 325 V	CTI; IEC 60112

Processing Properties	Metric	English	Comments
Mold Temperature	170 - 190 °C	338 - 374 °F	
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 ^{test}	Value ^{200/17}	Comments ⁷⁻¹³
Water Absorption	<10 mg	ISO 62; 24h / 23°C

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