

Raschig Group EPOXIDUR® 3582 EP Epoxy

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

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. Molding compound with a broad spectrum of applications. 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 the Raschig Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_Raschig-Group-EPOXIDUR-3582-EP-Epoxy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.90 - 2.00 g/cc	1.90 - 2.00 g/cc	ISO 1183
Apparent Bulk Density	0.700 - 1.00 g/cc	0.0253 - 0.0361 lb/in³	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	0.0030 - 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 - 80.0 MPa	8700 - 11600 psi	Injection and Compression; ISO 527
Modulus of Elasticity	15.0 - 18.0 GPa	2180 - 2610 ksi	Injection and Compression; ISO 527
Flexural Strength	180 - 210 MPa	26100 - 30500 psi	Injection and Compression; ISO 178
Flexural Modulus	20.0 - 23.0 GPa	2900 - 3340 ksi	Injection and Compression; ISO 178
Compressive Strength	200 - 250 MPa	29000 - 36300 psi	ISO 604
Charpy Impact Unnotched	1.20 - 1.60 J/cm² @Temperature 23.0 °C	5.71 - 7.61 ft-lb/in² @Temperature 73.4 °F	Injection and Compression; ISO 179/ 1eU
Charpy Impact, Notched	0.400 - 0.700 J/cm² @Temperature 23.0 °C	1.90 - 3.33 ft-lb/in² @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
		2.78 - 4.16 BTU-in/hr-	

Thermal Conductivity Thermal Properties	0.400 - 0.600 W/m-K Metric	ft ² ·°F English	ASTM E1461 Comments
Deflection Temperature at 1.8 MPa (264 psi)	>= 200 °C	>= 392 °F	Injection and Compression; ISO 75-A
Deflection Temperature at 8.0 MPa	180 - 200 °C	356 - 392 °F	Injection and Compression; 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	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	4.0 - 6.0 @Frequency 100 Hz	4.0 - 6.0 @Frequency 100 Hz	IEC 60250
	4.0 - 6.0 @Frequency 1.00e+6 Hz	4.0 - 6.0 @Frequency 1.00e+6 Hz	IEC 60250
Dielectric Strength	20.0 - 30.0 kV/mm	508 - 762 kV/in	IEC 60243-1
Dissipation Factor	0.010 - 0.020 @Frequency 100 Hz	0.010 - 0.020 @Frequency 100 Hz	IEC 60250
	0.020 - 0.040 @Frequency 1.00e+6 Hz	0.020 - 0.040 @Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	>= 250 V	>= 250 V	CTI; 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
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	24h/23°C; ISO 62

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China