

Raschig Group EN 5004 Epoxy Molding Compound

Category : Polymer , Thermoset , Epoxy , Epoxy Molding Compound

Material Notes:

Mica reinforced molding compound. Low mold shrinkage and post-shrinkage, very good electrical values, outstanding heat resistance, very good pourability. 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: Compression molding Primary application: Car lamp base H-4/H-7 Information provided by Raschig Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_Raschig-Group-EN-5004-Epoxy-Molding-Compound.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.30 - 2.45 g/cc	2.30 - 2.45 g/cc	ISO 1183
Apparent Bulk Density	1.00 - 1.30 g/cc	0.0361 - 0.0470 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	0.00200 - 0.00400 cm/cm	0.00200 - 0.00400 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength	30.0 - 50.0 MPa	4350 - 7250 psi	ISO 527
Modulus of Elasticity	7.00 - 9.00 GPa	1020 - 1310 ksi	ISO 527
Flexural Strength	50.0 - 60.0 MPa	7250 - 8700 psi	ISO 178
Flexural Modulus	20.0 - 22.0 GPa	2900 - 3190 ksi	ISO 178
Compressive Strength	200 - 220 MPa	29000 - 31900 psi	ISO 604
Charpy Impact Unnotched	0.200 - 0.300 J/cm ²	0.952 - 1.43 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	0.150 - 0.250 J/cm ²	0.714 - 1.19 ft-lb/in ²	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	0.700 - 0.900 W/m-K	4.86 - 6.25 BTU-in/hr-ft ² -°F	ASTM E1461
Deflection Temperature at 1.8 MPa	>= 200 °C	>= 392 °F	ISO 75-A

(264 psi) Thermal Properties	Metric	English	Comments
Deflection Temperature at 8.0 MPa	>= 160 °C	>= 320 °F	ISO 75-C
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	300 V	300 V	IEC 60112

Processing Properties	Metric	English	Comments
Shelf Life	6.00 Month @Temperature 20.0 - 30.0 °C	6.00 Month @Temperature 68.0 - 86.0 °F	

Descriptive Properties	Value	Comments
Glow wire flammability test	900/1	IEC 60695 2-12
Glow wire ignitability test	900/1	IEC 60695 2-13
Water Absorption	<10 mg	24 hr, 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