

Raschig Group RALUPOL® 4566 UP Polyester

Category : Polymer , Thermoset , Polyester, TS , Thermoset Polyester Glass Filled BMC

Material Notes:

Glass-fiber reinforced polyester molding compound. Low mold shrinkage and post-shrinkage, good electrical values, excellent heat resistance, outstanding 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: Lamp holders for automobile halogen bulbs Information provided by Raschig Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_Raschig-Group-RALUPOL-4566-UP-Polyester.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.00 - 2.20 g/cc	2.00 - 2.20 g/cc	ISO 1183
Apparent Bulk Density	0.900 - 1.10 g/cc	0.0325 - 0.0397 lb/in ³	ISO 60
Water Absorption	<= 0.600 % @Temperature 23.0 °C, Time 86400 sec	<= 0.600 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62
Linear Mold Shrinkage, Flow	0.00600 cm/cm	0.00600 in/in	Compression; ISO 2577

Mechanical Properties	Metric	English	Comments
Flexural Strength	60.0 - 80.0 MPa	8700 - 11600 psi	Compression; ISO 178
Flexural Modulus	16.0 - 20.0 GPa	2320 - 2900 ksi	Compression; ISO 178
Compressive Strength	150 - 200 MPa	21800 - 29000 psi	ISO 604
Charpy Impact Unnotched	0.300 - 0.400 J/cm ²	1.43 - 1.90 ft-lb/in ²	Compression; ISO 179/1eU
Charpy Impact, Notched	0.200 - 0.250 J/cm ²	0.952 - 1.19 ft-lb/in ²	Compression; ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	10.0 - 20.0 µm/m-°C @Temperature 50.0 - 100 °C	5.56 - 11.1 µin/in-°F @Temperature 122 - 212 °F	ISO 11359-2
Thermal Conductivity	0.900 - 1.10 W/m-K	6.25 - 7.63 BTU-in/hr- ft ² -°F	ASTM E1461
Maximum Service Temperature, Air	160 °C @Time 7.20e+7 sec	320 °F @Time 20000 hour	IEC 60216/T1
	200 °C	392 °F	IEC 60216/T1

Thermal Properties	Metric	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	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Shrinkage	<= 0.100 %	<= 0.100 %	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+13 - 1.00e+14 ohm-cm	1.00e+13 - 1.00e+14 ohm-cm	IEC 60093
Surface Resistance	1.00e+12 - 1.00e+13 ohm	1.00e+12 - 1.00e+13 ohm	IEC 60093
Dielectric Constant	4.00 - 5.00	4.00 - 5.00	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	5.00 - 6.00	5.00 - 6.00	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	0.0100 - 0.0300	0.0100 - 0.0300	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.0100 - 0.0300	0.0100 - 0.0300	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Arc Resistance	180 - 240 sec	180 - 240 sec	ASTM D495
Comparative Tracking Index	600 V	600 V	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
Water Absorption	<50 mg	24 hr, 23°C; ISO 62

Descriptive Properties	Value	Comments
------------------------	-------	----------

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