

Raschig Group RALUPOL® 8602 UP

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Polyester, TS

Material Notes:

Glass-fiber reinforced polyester molding compound. Mold shrinkage similar to phenolic molding compounds, low post-shrinkage, good electrical values, excellent heat resistance, good mechanical strength, excellent surface quality and excellent color stability (non-yellowing), low wear. 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 molding Primary application: Oven fittings Information provided by the Raschig Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_Raschig-Group-RALUPOL-8602-UP.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	0.750 - 1.00 g/cc	0.0271 - 0.0361 lb/in³	ISO 60
Water Absorption	<= 0.55 % @Temperature 23.0 °C, Time 86400 sec	<= 0.55 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62
Linear Mold Shrinkage	0.0060 - 0.0090 cm/cm	0.0060 - 0.0090 in/in	Injection; ISO 2257

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	40.0 - 70.0 MPa	5800 - 10200 psi	Injection; ISO 527
Modulus of Elasticity	10.0 - 12.0 GPa	1450 - 1740 ksi	Injection; ISO 527
Flexural Strength	90.0 - 120 MPa	13100 - 17400 psi	Injection; ISO 178
Flexural Modulus	14.0 - 16.0 GPa	2030 - 2320 ksi	Injection; ISO 178
Compressive Strength	150 - 200 MPa	21800 - 29000 psi	ISO 604
Charpy Impact Unnotched	0.500 - 1.00 J/cm² @Temperature 23.0 °C	2.38 - 4.76 ft-lb/in² @Temperature 73.4 °F	Injection; ISO 179/ 1eU
Charpy Impact, Notched	0.200 - 0.400 J/cm² @Temperature 23.0 °C	0.952 - 1.90 ft-lb/in² @Temperature 73.4 °F	Injection; ISO 179/ 1eA

Thermal Properties	Metric	English	Comments
CTE, linear	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 Properties	Metric	English	Comments
	0.600 W/m-K	3.47 - 4.16 BTU-in/hr- [ft-°F]	
Maximum Service Temperature, Air	150 °C	302 °F	20,000 h; IEC 216/T1
	200 °C	392 °F	< 50 h; IEC 216/T1
Deflection Temperature at 1.8 MPa (264 psi)	140 - 170 °C	284 - 338 °F	Injection; ISO 75-A
Deflection Temperature at 8.0 MPa	70.0 - 130 °C	158 - 266 °F	Injection; ISO 75-C
Flammability, UL94	V-0	V-0	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Shrinkage	<= 0.10 % @Temperature 110 °C, Time 605000 sec	<= 0.10 % @Temperature 230 °F, Time 168 hour	Post shrinkage; ISO 2577

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
Comparative Tracking Index	600 V	600 V	PTI; IEC 60112

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

Descriptive Properties	Value	Comments
Arc Resistance	4 Stufe	ASTM D495
Water Absorption	<40 mg	ISO 62; 24h / 23°C

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