

Raschig Group RALUPOL® 8605 UP Polyester

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

Material Notes:

Glass fiber reinforced polyester molding compound. Resistant to hydrolysis. 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 Information provided by Raschig Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_Raschig-Group-RALUPOL-8605-UP-Polyester.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	0.700 - 0.950 g/cc	0.0253 - 0.0343 lb/in³	ISO 60
Water Absorption	<= 0.300 % @Temperature 23.0 °C, Time 86400 sec	<= 0.300 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62
Linear Mold Shrinkage, Flow	0.00300 - 0.00400 cm/cm	0.00300 - 0.00400 in/in	Compression; ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength	70.0 - 100 MPa	10200 - 14500 psi	Compression; ISO 527
Modulus of Elasticity	6.00 - 8.00 GPa	870 - 1160 ksi	Compression; ISO 527
Flexural Strength	120 - 140 MPa	17400 - 20300 psi	Compression; ISO 178
Flexural Modulus	15.0 - 20.0 GPa	2180 - 2900 ksi	Compression; ISO 178
Compressive Strength	150 - 200 MPa	21800 - 29000 psi	ISO 604
Charpy Impact Unnotched	1.00 - 1.50 J/cm²	4.76 - 7.14 ft-lb/in²	Compression; ISO 179/1eU
Charpy Impact, Notched	0.350 - 0.500 J/cm²	1.67 - 2.38 ft-lb/in²	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- ft²-°F	ASTM E1461
Maximum Service Temperature, Air	170 °C	338 °F	IEC 60216/T1

Thermal Properties	@Time 7.20e+7 sec Metric	@Time 20000 hour English	Comments
	210 °C	410 °F	IEC 60216/T1
	@Time <=180000 sec	@Time <=50.0 hour	
Deflection Temperature at 8.0 MPa	>= 200 °C	>= 392 °F	ISO 75-C
Flammability, UL94	V-0	V-0	
	@Thickness 0.750 mm	@Thickness 0.0295 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+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	4.00 - 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
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Glow wire flammability test Descriptive Properties	960/1 Value	IEC 60695 2-12 Comments
Glow wire ignitability test	875/1	IEC 60695 2-13
Water Absorption	<20 mg	24 hr, 23°C; ISO 62

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