

Raschig Group 2568 AMC

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

Material Notes:

Glass fiber-reinforced polyester molding compound. Very good mechanical strength, very good electrical properties and dimensional stability, heat resistant up to 500°C for short time - usable for solder baths, excellent processability with very short cycle times, low mould 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 or Transfer. Applications: Connectors, Bobbins, Housings and Mounting plates
Information provided by the Raschig Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_Raschig-Group-2568-AMC.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	0.800 - 0.950 g/cc	0.0289 - 0.0343 lb/in ³	ISO 60
Water Absorption	<= 0.30 % @Temperature 23.0 °C, Time 86400 sec	<= 0.30 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62
Linear Mold Shrinkage	0.0025 - 0.0045 cm/cm	0.0025 - 0.0045 in/in	Injection and Compression; ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	35.0 - 60.0 MPa	5080 - 8700 psi	Compression; ISO 527
	60.0 - 70.0 MPa	8700 - 10200 psi	Injection; ISO 527
Modulus of Elasticity	6.00 - 9.00 GPa	870 - 1310 ksi	Compression; ISO 527
	13.0 - 15.0 GPa	1890 - 2180 ksi	Injection; ISO 527
Flexural Strength	80.0 - 100 MPa	11600 - 14500 psi	Compression; ISO 178
	140 - 160 MPa	20300 - 23200 psi	Injection; ISO 178
Flexural Modulus	8.00 - 12.0 GPa	1160 - 1740 ksi	Compression; ISO 178
	16.0 - 18.0 GPa	2320 - 2610 ksi	Injection; ISO 178
Compressive Strength	120 - 170 MPa	17400 - 24700 psi	Injection; ISO 604
Charpy Impact Unnotched	0.500 - 1.00 J/cm ² @Temperature 23.0 °C	2.38 - 4.76 ft-lb/in ² @Temperature 73.4 °F	Compression; ISO 179/ 1eU
	1.50 - 1.80 J/cm ² @Temperature 23.0 °C	7.14 - 8.57 ft-lb/in ² @Temperature 73.4 °F	Injection; ISO 179/ 1eU

Mechanical Properties	Metric	English	Comments
Charpy Impact, Notched	0.400 - 0.500 J/cm ²	1.34 - 2.38 ft-lb/in ²	Compression; ISO 179/ 1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	0.500 - 0.600 J/cm ²	2.38 - 2.86 ft-lb/in ²	Injection; ISO 179/ 1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	10.0 - 20.0 µm/m-°C	5.56 - 11.1 µin/in-°F	ISO 11359-2
	@Temperature 50.0 - 100 °C	@Temperature 122 - 212 °F	
Thermal Conductivity	0.900 - 1.10 W/m-K	6.25 - 7.63 BTU-in/hr-ft ² -°F	ASTM E1461
Deflection Temperature at 1.8 MPa (264 psi)	>= 200 °C	>= 392 °F	ISO 75-A
Deflection Temperature at 8.0 MPa	110 - 130 °C	230 - 266 °F	ISO 75-C
Flammability, UL94	V-0	V-0	
	@Thickness 1.40 mm	@Thickness 0.0551 in	
Shrinkage	<= 0.050 %	<= 0.050 %	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	4.0 - 5.0	4.0 - 5.0	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	5.0 - 6.0	5.0 - 6.0	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	0.010 - 0.030	0.010 - 0.030	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.010 - 0.030	0.010 - 0.030	IEC 60250
	@Frequency 1.00e+6	@Frequency 1.00e+6	

Electrical Properties	Hz Metric	Hz English	Comments
Comparative Tracking Index	600 V	600 V	CTI; 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
Arc Resistance	4 Stufe	ASTM D495
Glow wire flammability test	960/1	IEC 60695 2-12
Glow wire ignitability test	930/1	IEC 60695 2-13
Water Absorption	< 20 mg	ISO 62; 24h / 23°C

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