

Raschig Group 2557 AMC Polyester

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

Material Notes:

Glass fiber reinforced polyester molding compound. Very good mechanical strength, very good electrical properties and dimensional stability, exceptional processability with short cycle time and low mold 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 and transfer molding Primary application: Coil encapsulations Information provided by Raschig Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_Raschig-Group-2557-AMC-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	0.700 - 0.850 g/cc	0.0253 - 0.0307 lb/in ³	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 - 0.00500 cm/cm	0.00300 - 0.00500 in/in	Injection; ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength	50.0 - 70.0 MPa	7250 - 10200 psi	Injection; ISO 527
Modulus of Elasticity	9.00 - 11.0 GPa	1310 - 1600 ksi	Injection; ISO 527
Flexural Strength	130 - 150 MPa	18900 - 21800 psi	Injection; ISO 178
Flexural Modulus	16.0 - 18.0 GPa	2320 - 2610 ksi	Injection; ISO 178
Compressive Strength	120 - 170 MPa	17400 - 24700 psi	ISO 604
Charpy Impact Unnotched	1.30 - 1.60 J/cm ²	6.19 - 7.61 ft-lb/in ²	Injection; ISO 179/1eU
Charpy Impact, Notched	0.400 - 0.450 J/cm ²	1.90 - 2.14 ft-lb/in ²	Injection; 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
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	>= 190 °C	>= 374 °F	ISO 75-C
Flammability, UL94	V-0	V-0	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Shrinkage	<= 0.0500 %	<= 0.0500 %	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
Glow wire flammability test	960/1	IEC 60695 2-12
Glow wire ignitability test	930/1	IEC 60695 2-13

Descriptive Properties	Value	Comments
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