

## Raschig Group 2572 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, good abrasion stability, high flame retardance in combination with low fume toxicity (RATP\* approved), outstanding processability - optimized for automatic processing. 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. Applications: Thermostat housings, Switch parts and Relays Information provided by the Raschig Group

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Raschig-Group-2572-AMC.php](http://www.lookpolymers.com/polymer_Raschig-Group-2572-AMC.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 - 0.850 g/cc	0.0253 - 0.0307 lb/in <sup>3</sup>	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	0.0020 - 0.0045 cm/cm	0.0020 - 0.0045 in/in	Injection; ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	60.0 - 70.0 MPa	8700 - 10200 psi	Injection; ISO 527
Modulus of Elasticity	13.0 - 15.0 GPa	1890 - 2180 ksi	Injection; ISO 527
Flexural Strength	140 - 160 MPa	20300 - 23200 psi	Injection; ISO 178
Flexural Modulus	16.0 - 18.0 GPa	2320 - 2610 ksi	Injection; ISO 178
Compressive Strength	100 - 150 MPa	14500 - 21800 psi	Injection; ISO 604
Charpy Impact Unnotched	1.40 - 1.60 J/cm <sup>2</sup> @Temperature 23.0 °C	6.66 - 7.61 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	Injection; ISO 179/ 1eU
Charpy Impact, Notched	0.500 - 0.600 J/cm <sup>2</sup> @Temperature 23.0 °C	2.38 - 2.86 ft-lb/in <sup>2</sup> @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	Injection; ISO 11359-2

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	>= 200 °C	>= 392 °F	Injection; ISO 75-A
Deflection Temperature at 8.0 MPa	130 - 150 °C	266 - 302 °F	Injection; ISO 75-C
Flammability, UL94	V-0 @Thickness 1.10 mm	V-0 @Thickness 0.0433 in	
Shrinkage	<= 0.050 % @Temperature 110 °C, Time 605000 sec	<= 0.050 % @Temperature 230 °F, Time 168 hour	Post shrinkage; ISO 2577

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 @Frequency 1.00e+6 Hz	4.0 - 5.0 @Frequency 1.00e+6 Hz	IEC 60250
Dielectric Strength	5.0 - 6.0 @Frequency 100 Hz	5.0 - 6.0 @Frequency 100 Hz	IEC 60250
Dissipation Factor	25.0 - 35.0 kV/mm	635 - 889 kV/in	IEC 60243-1
Comparative Tracking Index	0.010 - 0.030 @Frequency 100 Hz	0.010 - 0.030 @Frequency 100 Hz	IEC 60250
	0.010 - 0.030 @Frequency 1.00e+6 Hz	0.010 - 0.030 @Frequency 1.00e+6 Hz	IEC 60250
	600 V	600 V	CTI; 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

<b>Glow wire flammability test</b> Descriptive Properties	<b>960/1</b> Value	<b>IEC 60695 2-12</b> Comments
Glow wire ignitability test	930/1	IEC 60695 2-13
Water Absorption	<20 mg	ISO 62; 24h / 23°C

## Contact Songhan Plastic Technology Co.,Ltd.

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