

Raschig Group 5563 DAP

Category : Polymer , Thermoset , Diallyl Phthalate (DAP) , Diallyl Phthalate (DAP) Molding Compound, Short Glass Fiber Filled , Filled/Reinforced Thermoset

Material Notes:

Glass-fiber reinforced diallyl phthalate molding compound. Good mechanical strength together with retention of high electrical isolation properties under hot humid conditions, exceptional dimensional stability even under severe environmental conditions, easy flowing for use in long runner systems. 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: Connectors, Bobbins, Potentiometers, switches Information provided by the Raschig Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_Raschig-Group-5563-DAP.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.80 - 2.00 g/cc	1.80 - 2.00 g/cc	ISO 1183
Apparent Bulk Density	0.750 - 0.900 g/cc	0.0271 - 0.0325 lb/in ³	ISO 60
Water Absorption	<= 0.20 % @Temperature 23.0 °C, Time 86400 sec	<= 0.20 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62
Linear Mold Shrinkage	0.0015 - 0.0045 cm/cm	0.0015 - 0.0045 in/in	Injection; ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	80.0 - 90.0 MPa	11600 - 13100 psi	Injection; ISO 527
Modulus of Elasticity	10.0 - 14.0 GPa	1450 - 2030 ksi	Injection; ISO 527
Flexural Strength	120 - 160 MPa	17400 - 23200 psi	Injection; ISO 178
Flexural Modulus	14.0 - 18.0 GPa	2030 - 2610 ksi	Injection; ISO 178
Compressive Strength	150 - 200 MPa	21800 - 29000 psi	ISO 604
Charpy Impact Unnotched	0.700 - 1.00 J/cm ² @Temperature 23.0 °C	3.33 - 4.76 ft-lb/in ² @Temperature 73.4 °F	Injection; ISO 179/ 1eU
Charpy Impact, Notched	0.350 - 0.450 J/cm ² @Temperature 23.0 °C	1.67 - 2.14 ft-lb/in ² @Temperature 73.4 °F	Injection; ISO 179/ 1eA

Thermal Properties	Metric	English	Comments
CTE, linear	5.00 - 10.0 µm/m-°C @Temperature 50.0 - 100 °C	2.78 - 5.56 µin/in-°F @Temperature 122 - 212 °F	ISO 11359-2

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.900 - 1.10 W/m-K	0.515 - 0.63 BTU-in/hr-ft ² -°F	ASTM E1461
Deflection Temperature at 1.8 MPa (264 psi)	>= 200 °C	>= 392 °F	Injection; ISO 75-A
Deflection Temperature at 8.0 MPa	120 - 140 °C	248 - 284 °F	Injection; ISO 75-C
Flammability, UL94	V-1 @Thickness 1.50 mm	V-1 @Thickness 0.0591 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+14 - 1.00e+15 ohm	1.00e+14 - 1.00e+15 ohm	IEC 60093
Dielectric Constant	4.0 - 4.5 @Frequency 1.00e+6 Hz	4.0 - 4.5 @Frequency 1.00e+6 Hz	IEC 60250
Dielectric Strength	4.5 - 5.0 @Frequency 100 Hz	4.5 - 5.0 @Frequency 100 Hz	IEC 60250
Dissipation Factor	15.0 - 20.0 kV/mm	381 - 508 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
	>= 500 V	>= 500 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

Descriptive Properties	Value	Comments
Glow wire ignitability test	875/0.6	IEC 60695 2-13
Water Absorption	<15 mg	ISO 62; 24h / 23°C

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