

Raschig Group 6501 DAIP

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

Material Notes:

Glass-fiber reinforced diallyl isophthalate 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. 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: Compression 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-6501-DAIP.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	0.700 - 0.850 g/cc	0.0253 - 0.0307 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	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	Compression; ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	30.0 - 50.0 MPa	4350 - 7250 psi	Compression; ISO 527
Modulus of Elasticity	5.00 - 7.00 GPa	725 - 1020 ksi	Compression; ISO 527
Flexural Strength	60.0 - 80.0 MPa	8700 - 11600 psi	Compression; ISO 178
Flexural Modulus	8.00 - 10.0 GPa	1160 - 1450 ksi	Compression; ISO 178
Compressive Strength	150 - 200 MPa	21800 - 29000 psi	ISO 604
Charpy Impact Unnotched	0.200 - 0.300 J/cm ² @Temperature 23.0 °C	0.952 - 1.43 ft-lb/in ² @Temperature 73.4 °F	Compression; ISO 179/ 1eU
Charpy Impact, Notched	0.120 - 0.180 J/cm ² @Temperature 23.0 °C	0.571 - 0.857 ft-lb/in ² @Temperature 73.4 °F	Compression; ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	50.0 - 60.0 µm/m-°C @Temperature 50.0 - 100 °C	27.8 - 33.3 µin/in-°F @Temperature 122 - 212 °F	ISO 11359-2

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.400 - 0.600 W/m-K	0.16 - 0.24 BTU-in/hr-ft ² -°F	ASTM E1461
Deflection Temperature at 8.0 MPa	>= 200 °C	>= 392 °F	ISO 75-C
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 - 5.0 @Frequency 100 Hz	4.0 - 5.0 @Frequency 100 Hz	IEC 60250
	4.0 - 5.0 @Frequency 1.00e+6 Hz	4.0 - 5.0 @Frequency 1.00e+6 Hz	IEC 60250
Dielectric Strength	15.0 - 20.0 kV/mm	381 - 508 kV/in	IEC 60243-1
Dissipation Factor	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
Comparative Tracking Index	>= 575 V	>= 575 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
Glow wire flammability test	850/1	IEC 60695 2-12
Glow wire ignitability test	875/1	IEC 60695 2-13
Water Absorption	<15 mg	ISO 62; 24h / 23°C

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