Raschig Group 5567 DAP Diallyl Phthalate (DAP), Cast, Mineral Filler

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

Material Notes:

Glass-fiber reinforced diallyl phthalate molding compound free from halogens. 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, Injection and transfer moldingApplications: Pin and socket connectors, Spools, Potentiometers, SwitchesInformation provided by Raschig Group

Order this product through the following link:
http://www.lookpolymers.com/polymer_Raschig-Group-5567-DAP-Diallyl-Phthalate-DAP-Cast-Mineral-Filler.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	0.750 - 0.900 g/cc	0.0271 - 0.0325 lb/in³	ISO 60
Water Absorption	<= 0.200 % @Temperature 23.0 °C, Time 86400 sec	<= 0.200 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62
Linear Mold Shrinkage, Flow	0.00300 - 0.00400 cm/cm	0.00300 - 0.00400 in/in	Injection; ISO 2577
	0.00500 - 0.00600 cm/cm	0.00500 - 0.00600 in/in	Compression; ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength	35.0 - 60.0 MPa	5080 - 8700 psi	Compression; ISO 527
	40.0 - 70.0 MPa	5800 - 10200 psi	Injection; ISO 527
Modulus of Elasticity	6.00 - 9.00 GPa	870 - 1310 ksi	Compression; ISO 527
	9.00 - 11.0 GPa	1310 - 1600 ksi	Injection; ISO 527
Flexural Strength	80.0 - 100 MPa	11600 - 14500 psi	Compression; ISO 178
	100 - 140 MPa	14500 - 20300 psi	Injection; ISO 178
Flexural Modulus	8.00 - 12.0 GPa	1160 - 1740 ksi	Compression; ISO 178
	13.0 - 16.0 GPa	1890 - 2320 ksi	Injection; ISO 178
Compressive Strength	150 - 200 MPa	21800 - 29000 psi	ISO 604
Charpy Impact Unnotched	0.500 - 1.00 J/cm²	2.38 - 4.76 ft-lb/in²	Compression; ISO 179/1eU

Mechanical Properties	Metric	English	Comments
	0.800 - 1.10 J/cm²	3.81 - 5.23 ft-lb/in²	Injection; ISO 179/1eU
Charpy Impact, Notched	0.250 - 0.350 J/cm²	1.19 - 1.67 ft-lb/in²	Compression; ISO 179/1eA
	0.350 - 0.500 J/cm²	1.67 - 2.38 ft-lb/in²	Injection; ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	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 Conductivity	0.900 - 1.10 W/m-K	6.25 - 7.63 BTU-in/hr-ft²-°F	ASTM E1461
Deflection Temperature at 1.8 MPa (264 psi)	>= 200 °C	>= 392 °F	ISO 75-A
Deflection Temperature at 8.0 MPa	>= 180 °C	>= 356 °F	ISO 75-C
Flammability, UL94	V-0 @Thickness 0.800 mm	V-0 @Thickness 0.0315 in	
Shrinkage	<= 0.0500 % @Temperature 110 °C, Time 605000 sec	<= 0.0500 % @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	4.00 - 4.50 @Frequency 1.00e+6 Hz	4.00 - 4.50 @Frequency 1.00e+6 Hz	IEC 60250
	4.50 - 5.00 @Frequency 100 Hz	4.50 - 5.00 @Frequency 100 Hz	IEC 60250
Dielectric Strength	35.0 - 40.0 kV/mm	889 - 1020 kV/in	IEC 60243-1
Dissipation Factor	0.0100 - 0.0300 @Frequency 1.00e+6 Hz	0.0100 - 0.0300 @Frequency 1.00e+6 Hz	IEC 60250
	0.0100 - 0.0300 @Frequency 100 Hz	0.0100 - 0.0300 @Frequency 100 Hz	IEC 60250
Arc Resistance			ASTM D495

Electrical Properties	Metric	English	Comments
	180 - 240 sec	180 - 240 sec	
Comparative Tracking Index	600 V	600 V	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
Glow wire flammability test	960/1	IEC 60695 2-12
Glow wire ignitability test	930/1	IEC 60695 2-13
Water Absorption	<15 mg	24 hr, 23°C; ISO 62

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