

Raschig Group 5553 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 condition. 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-5553-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 - 0.0035 cm/cm	0.0015 - 0.0035 in/in	Injection; ISO 2577
	0.0015 - 0.0045 cm/cm	0.0015 - 0.0045 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	35.0 - 60.0 MPa	5080 - 8700 psi	Compression; ISO 527
	80.0 - 100 MPa	11600 - 14500 psi	Injection; ISO 527
Modulus of Elasticity	6.00 - 9.00 GPa	870 - 1310 ksi	Compression; ISO 527
	10.0 - 16.0 GPa	1450 - 2320 ksi	Injection; ISO 527
Flexural Strength	90.0 - 110 MPa	13100 - 16000 psi	Compression; ISO 178
	150 - 180 MPa	21800 - 26100 psi	Injection; ISO 178
Flexural Modulus	8.00 - 12.0 GPa	1160 - 1740 ksi	Compression; ISO 178
	12.0 - 18.0 GPa	1740 - 2610 ksi	Injection; ISO 178
Compressive Strength	150 - 200 MPa	21800 - 29000 psi	ISO 604
Charpy Impact Unnotched	0.500 - 1.00 J/cm ² @Temperature 23.0 °C	2.38 - 4.76 ft-lb/in ² @Temperature 73.4 °F	Compression; ISO 179/ 1eU

Mechanical Properties	Metric	English	Comments
	1.00 - 1.50 J/cm ²	4.75 - 7.14 ft-lb/in ²	Injection; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.350 - 0.600 J/cm ²	1.67 - 2.86 ft-lb/in ²	Compression; ISO 179/ 1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	0.400 - 0.800 J/cm ²	1.90 - 3.81 ft-lb/in ²	Injection; ISO 179/ 1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	5.00 - 10.0 µm/m-°C	2.78 - 5.56 µin/in-°F	ISO 11359-2
	@Temperature 50.0 - 100 °C	@Temperature 122 - 212 °F	
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 (264 psi)	>= 180 °C	>= 356 °F	Compression; ISO 75-A
Deflection Temperature at 8.0 MPa	120 - 140 °C	248 - 284 °F	ISO 75-C
Flammability, UL94	V-0	V-0	
	@Thickness 0.600 mm	@Thickness 0.0236 in	
Shrinkage	<= 0.050 %	<= 0.050 %	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+14 - 1.00e+15 ohm	1.00e+14 - 1.00e+15 ohm	IEC 60093
Dielectric Constant	4.0 - 4.5	4.0 - 4.5	IEC 60250
	@Frequency 2.30e+7 Hz	@Frequency 2.30e+7 Hz	
	4.5 - 5.0	4.5 - 5.0	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	15.0 - 20.0 kV/mm	381 - 508 kV/in	IEC 60243-1
Dissipation Factor	0.010 - 0.030	0.010 - 0.030	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	

Electrical Properties	0.010 - 0.030 Metric	0.010 - 0.030 English	Comments IEC 60250
	@Frequency 2.30e+7 Hz	@Frequency 2.30e+7 Hz	
Comparative Tracking Index	>= 500 V	>= 500 V	CTI; IEC 60112

Processing Properties	Metric	English	Comments
	6.00 Month	6.00 Month	
Shelf Life	@Temperature 15.0 - 25.0 °C	@Temperature 59.0 - 77.0 °F	

Descriptive Properties	Value	Comments
Arc Resistance	4 Stufe	ASTM D495
Glow wire flammability test	960/0.6	DIN EN 60695-2-11
Glow wire ignitability test	875/0.6	DIN EN 60695-2-13
Water Absorption	<15 mg	ISO 62; 24h / 23°C

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