

Cosmic Plastics D72 Short Glass Fiber Filled Ortho Diallyl Phthalate Molding Compound

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

Material Notes:

Data provided by the manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Cosmic-Plastics-D72-Short-Glass-Fiber-Filled-Ortho-Diallyl-Phthalate-Molding-Compound.php

Physical Properties	Metric	English	Comments
Density	1.82 g/cc	0.0658 lb/in ³	
Apparent Bulk Density	0.730 g/cc	0.0264 lb/in ³	
Water Absorption	0.25 %	0.25 %	48 hrs, 50°C
Linear Mold Shrinkage	0.0010 - 0.0040 cm/cm	0.0010 - 0.0040 in/in	typical.

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	41.0 - 69.0 MPa	5950 - 10000 psi	
Flexural Strength	97.0 MPa	14100 psi	
Compressive Strength	172 MPa	24900 psi	
Izod Impact, Notched	0.450 J/cm	0.843 ft-lb/in	

Thermal Properties	Metric	English	Comments
CTE, linear	16.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	8.89 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 1.8 MPa (264 psi)	260 °C	500 °F	Heat Distortion temperature
Flammability, UL94	V-0	V-0	
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	$\geq 1.00\text{e}+17$ ohm-cm	$\geq 1.00\text{e}+17$ ohm-cm	
Surface Resistance	$\geq 1.00\text{e}+17$ ohm	$\geq 1.00\text{e}+17$ ohm	
Dielectric Constant	4.2	4.2	Wet
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

Electrical Properties	Metric	English	Comments
	@Frequency 1000 Hz	@Frequency 1000 Hz	Wet
Dielectric Strength	14.0 kV/mm	356 kV/in	Wet, Step by Step
Dissipation Factor	0.011	0.011	Wet
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.015	0.015	Wet
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Arc Resistance	145 sec	145 sec	

Processing Properties	Metric	English	Comments
Processing Temperature	135 - 165 °C	275 - 329 °F	Molding temperature

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