

Cosmic Plastics D62 Long Glass Fiber Filled Ortho Diallyl Phthalate Molding Compound

Category : Polymer , Thermoset , Diallyl Phthalate (DAP) , Diallyl Phthalate (DAP) Molding Compound, Long 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-D62-Long-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	0.300 g/cc	0.0108 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	103 MPa	14900 psi	
Compressive Strength	186 MPa	27000 psi	
Izod Impact, Notched	2.40 J/cm	4.50 ft-lb/in	

Thermal Properties	Metric	English	Comments
CTE, linear	24.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	13.3 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@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 3.20 mm	@Thickness 0.126 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	0.0090	0.0090	Wet
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.016	0.016	Wet
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Arc Resistance	180 sec	180 sec	

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

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