

Cosmic Plastics 6160 Mineral Filled Ortho Diallyl Phthalate Molding Compound

Category : Polymer , Thermoset , Diallyl Phthalate (DAP) , Diallyl Phthalate (DAP), Cast, Mineral Filler , Filled/Reinforced Thermoset

Material Notes:

Data provided by the manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Cosmic-Plastics-6160-Mineral-Filled-Ortho-Diallyl-Phthalate-Molding-Compound.php

Physical Properties	Metric	English	Comments
Density	1.84 g/cc	0.0665 lb/in ³	
Water Absorption	0.40 %	0.40 %	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 MPa	5950 psi	
Flexural Strength	76.0 MPa	11000 psi	
Compressive Strength	155 MPa	22500 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	45.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	25.0 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 1.8 MPa (264 psi)	177 °C	351 °F	Heat Distortion temperature

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	4.3	4.3	Wet
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	4.5	4.5	Wet
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	14.0 kV/mm	356 kV/in	Wet, Step by Step
Dissipation Factor	0.013	0.013	Wet
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Electrical Properties	Metric	English	Comments
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Arc Resistance	135 sec	135 sec	

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

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