

Cosmic Plastics D44 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-D44-Mineral-Filled-Ortho-Diallyl-Phthalate-Molding-Compound.php

Physical Properties	Metric	English	Comments
Density	1.74 g/cc	0.0629 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	165 MPa	23900 psi	
Izod Impact, Notched	0.230 J/cm	0.431 ft-lb/in	

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	4.4	4.4	Wet
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	4.7	4.7	Wet
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	14.0 kV/mm	356 kV/in	Wet, Step by Step
	0.010	0.010	

Designation Factor Electrical Properties	Metric @Frequency 1000 Hz	English @Frequency 1000 Hz	Wet Comments
	0.017	0.017	Wet
	@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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