

Cosmic Plastics ID-40 Orlon Filled Ortho Diallyl Phthalate Molding Compound

Category : Polymer , Thermoset , Diallyl Phthalate (DAP) , Diallyl Phthalate (DAP), Molded, 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-ID-40-Orlon-Filled-Ortho-Diallyl-Phthalate-Molding-Compound.php

Physical Properties	Metric	English	Comments
Density	1.52 g/cc	0.0549 lb/in ³	
Apparent Bulk Density	0.250 g/cc	0.00903 lb/in ³	
Water Absorption	0.35 %	0.35 %	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	25.0 - 34.0 MPa	3630 - 4930 psi	
Flexural Strength	71.0 MPa	10300 psi	
Compressive Strength	148 MPa	21500 psi	
Izod Impact, Notched	0.350 J/cm	0.656 ft-lb/in	

Thermal Properties	Metric	English	Comments
CTE, linear	42.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	23.3 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 1.8 MPa (264 psi)	129 °C	264 °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	3.3	3.3	Wet
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	3.4	3.4	Wet
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	14.0 kV/mm	356 kV/in	Wet, Step by Step

Electrical Properties	Metric	English	Comments
Dissipation Factor	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	Wet
	0.020	0.020	Wet
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Arc Resistance	100 sec	100 sec	

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

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