

Cosmic Plastics 3D36 Thermoset Polyester Molding Compound

Category : Polymer , Thermoset , Polyester, TS , Polyester (Thermoset) - Rigid

Material Notes:

Data provided by the manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Cosmic-Plastics-3D36-Thermoset-Polyester-Molding-Compound.php

Physical Properties	Metric	English	Comments
Density	2.00 g/cc	0.0723 lb/in ³	
Water Absorption	1.0 %	1.0 %	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	24.0 - 48.0 MPa	3480 - 6960 psi	
Flexural Strength	76.0 MPa	11000 psi	
Compressive Strength	138 MPa	20000 psi	
Izod Impact, Notched	3.20 J/cm	5.99 ft-lb/in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	204 °C	399 °F	Heat Distortion temperature
Flammability, UL94	V-1 @Thickness 3.20 mm	V-1 @Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Dielectric Constant	5.5	5.5	Wet
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Constant	6.0	6.0	Wet
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	14.0 kV/mm	356 kV/in	Wet, Step by Step
Dissipation Factor	0.030	0.030	Wet
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.050	0.050	Wet

Electrical Properties	@Frequency 1000 Hz Metric	@Frequency 1000 Hz English	Comments
Arc Resistance	150 sec	150 sec	

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

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