

Chang Chun Plastic Longlite PM T357 Electrical Phenolic Molding Compound

Category : Polymer , Thermoset , Phenolic , Phenolic; Unreinforced; Molded

Material Notes:

ASTM Grades per ASTM D700 are 2, 3. Information provided by Dowell Trading Company Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chang-Chun-Plastic-Longlite-PM-T357-Electrical-Phenolic-Molding-Compound.php

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in ³	ASTM D792
Water Absorption	0.30 %	0.30 %	ASTM D570
Linear Mold Shrinkage	0.0070 cm/cm	0.0070 in/in	Compression; ASTM D955
	0.0090 cm/cm	0.0090 in/in	Transfer; ASTM D955
	0.012 cm/cm	0.012 in/in	Injection; ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	55.0 MPa	7980 psi	ASTM D651
Flexural Yield Strength	88.0 MPa	12800 psi	ASTM D790
Compressive Yield Strength	207 MPa	30000 psi	ASTM D695
Izod Impact, Notched	0.290 J/cm	0.543 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.340 J/cm ²	1.62 ft-lb/in ²	ASTM D256

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	180 °C	356 °F	Two Hour Heat Resistance per ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	170 °C	338 °F	ASTM D648
Flammability, UL94	V-0	V-0	
	@Thickness 0.790 mm	@Thickness 0.0311 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	ASTM D257
Insulation Resistance	1.00e+9 ohm	1.00e+9 ohm	After Boiling; ASTM D257
	1.00e+11 ohm	1.00e+11 ohm	Normal; ASTM D257

Dielectric Strength Electrical Properties	12.8 kV/mm Metric	325 kV/in English	ASTM D149 Comments
Arc Resistance	120 sec	120 sec	ASTM D495
Comparative Tracking Index	100 - 175 V	100 - 175 V	UL PLC 4

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