

PolyOne Stat-Tech™ MP-25NCF/000 Modified PPO - 25% Nickel Coated Graphite Fiber (discontinued **)

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO

Material Notes:

Data provided by PolyOne.

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Stat-Tech-MP-25NCF000-Modified-PPO-25-Nickel-Coated-Graphite-Fiber-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.25 g/cc	0.0452 lb/in ³	ASTM D792
Water Absorption	0.060 %	0.060 %	24 hrs. ASTM D570
Linear Mold Shrinkage	0.0010 cm/cm @Thickness 3.17 mm	0.0010 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	110 MPa	16000 psi	ASTM D638
Elongation at Break	2.0 - 3.0 %	2.0 - 3.0 %	ASTM D638
Tensile Modulus	7.60 GPa	1100 ksi	ASTM D638
Flexural Yield Strength	165 MPa	23900 psi	ASTM D790
Flexural Modulus	9.70 GPa	1410 ksi	ASTM D790
Izod Impact, Notched	0.690 J/cm @Thickness 6.35 mm	1.29 ft-lb/in @Thickness 0.250 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	146 °C	295 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	143 °C	289 °F	ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	<= 1.00 ohm-cm	<= 1.00 ohm-cm	ASTM D257
Surface Resistance	<= 1.0 ohm	<= 1.0 ohm	ASTM D257

Processing Properties	Metric	English	Comments
Melt Temperature	293 - 316 °C	559 - 601 °F	Stock
Mold Temperature	82.0 - 107 °C	180 - 225 °F	
Drying Temperature	93.0 °C	199 °F	

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