

Techmer ES HiFill® PA12 1100 Tungsten Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 12

Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Tungsten Filler Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PA12-1100-Tungsten-Filled.php

Physical Properties	Metric	English	Comments
Density	11.0 g/cc	0.397 lb/in ³	ASTM D792
Water Absorption	0.10 %	0.10 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength, Yield	35.2 MPa	5100 psi	ASTM D638
Elongation at Break	4.0 %	4.0 %	ASTM D638
Flexural Strength	48.3 MPa	7000 psi	ASTM D790
Flexural Modulus	6.89 GPa	1000 ksi	ASTM D790
Izod Impact, Notched	3.47 J/cm	6.50 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	16.2 µm/m-°C	9.00 µin/in-°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	121 °C	250 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	108 °C	226 °F	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.0 - 100 ohm-cm	1.0 - 100 ohm-cm	ASTM D257

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