

Techmer ES Plastiblend® TPX-HTN-000BB

Category : Polymer , Thermoplastic , Nylon , High Temperature Nylon

Material Notes:

Availability: North America Forms: Pellets Features: High Heat Resistance Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Plastiblend-TPX-HTN-000BB.php

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in ³	ASTM D792
Water Absorption	1.8 % @Time 86400 sec	1.8 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.010 cm/cm @Thickness 3.17 mm	0.010 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	115	115	ASTM D785
Tensile Strength, Yield	100 MPa	14500 psi	ASTM D638
Elongation at Break	35 %	35 %	ASTM D638
Flexural Strength	131 MPa	19000 psi	ASTM D790
Flexural Modulus	2.65 GPa	385 ksi	ASTM D790
Izod Impact, Notched	1.23 J/cm @Thickness 3.17 mm	2.30 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.2 Åµm/m-Å°C	39.0 Åµin/in-Å°F	ASTM D696
Melting Point	110 Å°C	230 Å°F	
Maximum Service Temperature, Inert	133 Å°C	272 Å°F	ASTM D794
Deflection Temperature at 1.8 MPa (264 psi)	100 Å°C	212 Å°F	Unannealed; ASTM D648

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