

Techmer ES Elastoblend® TPX-PA6/6 97058 BK 32% Mineral Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Mineral Filled , Nylon 66, Mineral Filled, Impact Grade

Material Notes:

Availability: North America
Forms: Pellets
Filler/Reinforcement: Mineral Fiber Reinforcement, 33% Filler by Weight
Additive: Impact Modifier and Lubricant
Features: Impact Modified and Lubricated
UL File Number: E157318
Appearance: Black
Processing Method: Injection Molding
Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Elastoblend-TPX-PA66-97058-BK-32-Mineral-Filled.php

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in ³	ASTM D792
Water Absorption	0.70 %	0.70 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.010 cm/cm	0.010 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	77.2 MPa	11200 psi	ASTM D638
Elongation at Yield	16 %	16 %	ASTM D638
Flexural Yield Strength	116 MPa	16800 psi	ASTM D790
Flexural Modulus	4.52 GPa	655 ksi	ASTM D790
Izod Impact, Notched	1.01 J/cm	1.90 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	
Izod Impact, Unnotched	14.9 J/cm	28.0 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	54.0 Åµm/m-Å°C	30.0 Åµin/in-Å°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	216 Å°C	420 Å°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	73.9 Å°C	165 Å°F	Unannealed; ASTM D648
Flammability, UL94	HB	HB	

Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Volume Resistivity	2.00e+13 ohm-cm	2.00e+13 ohm-cm	ASTM D257
Dielectric Strength	15.0 kV/mm	380 kV/in	Method A (Short-Time); ASTM D149

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