

Techmer ES HiFill® TPX-IONOMER-02045 BK 14% Glass Filled

Category : Polymer , Thermoplastic , Ionomer

Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Glass Fiber Reinforcement, 14% Filler by Weight Appearance:

Black Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-TPX-IONOMER-02045-BK-14-Glass-Filled.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ASTM D792
Water Absorption	0.10 % @Time 86400 sec	0.10 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0050 cm/cm @Thickness 3.17 mm	0.0050 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	96	96	ASTM D785
Tensile Strength, Yield	60.7 MPa	8800 psi	ASTM D638
Elongation at Break	22 %	22 %	ASTM D638
Flexural Yield Strength	96.5 MPa	14000 psi	ASTM D790
Flexural Modulus	2.45 GPa	355 ksi	ASTM D790
Izod Impact, Notched	1.49 J/cm @Thickness 3.17 mm	2.80 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	37.8 Åm/m-Å°C	21.0 Åin/in-Å°F	ASTM D696
Melting Point	135 Å°C	275 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	131 Å°C	268 Å°F	Unannealed; ASTM D648

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