

Techmer ES Luriblend® TPX-HDPE-99018

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Injection Molded

Material Notes:

Availability: North America
Forms: Pellets
Features: Good Wear Resistance and Low Friction
Processing Method: Injection Molding
TPCI# 8869115
Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Luriblend-TPX-HDPE-99018.php

Physical Properties	Metric	English	Comments
Density	0.941 g/cc	0.0340 lb/in ³	ASTM D792
Water Absorption	0.070 % @Time 86400 sec	0.070 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.022 cm/cm @Thickness 3.17 mm	0.022 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	66	66	ASTM D785
Tensile Strength	32.4 MPa	4700 psi	ASTM D638
Elongation at Yield	80 %	80 %	ASTM D638
Flexural Yield Strength	48.3 MPa	7000 psi	ASTM D790
Flexural Modulus	0.896 GPa	130 ksi	ASTM D790
Izod Impact, Notched	NB @Thickness 3.17 mm	NB @Thickness 0.125 in	ASTM D256
Coefficient of Friction, Dynamic	0.027	0.027	ASTM D1894
Coefficient of Friction, Static	0.019	0.019	ASTM D1894
K (wear) Factor	121 x 10 ⁻⁸ mm ³ /N-M	60.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	
Limiting Pressure Velocity	0.0876 MPa-m/sec	2500 psi-ft/min	1000 fpm
	0.105 MPa-m/sec	3000 psi-ft/min	10 fpm
	0.175 MPa-m/sec	5000 psi-ft/min	100 fpm
Abrasion	31 @Time 86400 sec	31 @Time 24.0 hour	Sand Slurry

Mechanical Properties	Metric	English	Comments
	@Time 173000 sec	@Time 48.0 hour	1750 rpm, Sand Slurry

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	95.4 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	53.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	93.3 $\text{Å}^\circ\text{C}$	200 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	54.4 $\text{Å}^\circ\text{C}$	130 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257

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