

Techmer ES Luriblend® PE 5902

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE

Material Notes:

Availability: North America Forms: Pellets Additive: Lubricant Features: Lubricated, Good Wear Resistance and Low Friction Processing

Method: Injection Molding Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Luriblend-PE-5902.php

Physical Properties	Metric	English	Comments
Density	0.970 g/cc	0.0350 lb/in ³	ASTM D792
Water Absorption	0.070 % @Time 86400 sec	0.070 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.030 cm/cm @Thickness 3.17 mm	0.030 in/in @Thickness 0.125 in	ASTM D955
Melt Flow	1.0 g/10 min @Load 10.0 kg, Temperature 190 °C	1.0 g/10 min @Load 22.0 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	25.5 MPa	3700 psi	ASTM D638
Elongation at Break	30 %	30 %	ASTM D638
Flexural Strength	41.4 MPa	6000 psi	ASTM D790
Flexural Modulus	0.483 GPa	70.0 ksi	ASTM D790
Izod Impact, Notched	1.07 J/cm @Thickness 3.17 mm	2.00 ft-lb/in @Thickness 0.125 in	ASTM D256
Coefficient of Friction, Dynamic	0.15	0.15	ASTM D1894
Coefficient of Friction, Static	0.080	0.080	ASTM D1894
K (wear) Factor	32.2 x 10 ⁻⁸ mm ³ /N-M	16.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	
Limiting Pressure Velocity	0.350 MPa-m/sec	10000 psi-ft/min	10 fpm
	0.631 MPa-m/sec	18000 psi-ft/min	100 fpm
	0.683 MPa-m/sec	19500 psi-ft/min	1000 fpm

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	90.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	50.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	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
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Dielectric Strength	19.7 kV/mm	500 kV/in	Method A (Short-Time); ASTM D149

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