

Techmer ES Luriblend[®] PA12 TS18

Category : Polymer , Thermoplastic , Nylon , Nylon 12 , Nylon 12, PTFE Filled

Material Notes:

Availability: North America Forms: Pellets Additive: Silicone Lubricant(2%) and PTFE Lubricant(18%) Features: Lubricated Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Luriblend-PA12-TS18.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ASTM D792
Water Absorption	0.50 % @Time 86400 sec	0.50 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.015 cm/cm @Thickness 3.17 mm	0.015 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	106	106	ASTM D785
Tensile Strength, Yield	58.6 MPa	8500 psi	ASTM D638
Elongation at Break	10 %	10 %	ASTM D638
Flexural Strength	68.9 MPa	10000 psi	ASTM D790
Flexural Modulus	1.65 GPa	240 ksi	ASTM D790
Izod Impact, Notched	0.374 J/cm @Thickness 3.17 mm	0.700 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	126 $\mu\text{m/m-}^\circ\text{C}$	70.0 $\mu\text{in/in-}^\circ\text{F}$	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	132 $^\circ\text{C}$	270 $^\circ\text{F}$	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	77.8 $^\circ\text{C}$	172 $^\circ\text{F}$	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+11 ohm-cm	1.00e+11 ohm-cm	ASTM D257
Dielectric Strength	25.6 kV/mm	650 kV/in	Method A (Short-Time); ASTM D149

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