

Techmer ES Luriblend[®] PA11 GF30 TL20 LE 30% Glass Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 11 , Nylon 11 with 30% Glass Fiber Filler

Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Glass Fiber, 30% Filler by Weight Additive: Heat Stabilizer and PTFE

Lubricant Features: Good Wear Resistance, Low Extractables, Lubricated, Heat Stabilized and Low Friction Information provided by TP

Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Luriblend-PA11-GF30-TL20-LE-30-Glass-Filled.php

Physical Properties	Metric	English	Comments
Density	1.44 g/cc	0.0520 lb/in ³	ASTM D792
Water Absorption	0.10 %	0.10 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0015 cm/cm	0.0015 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	108	108	ASTM D785
Tensile Strength, Yield	124 MPa	18000 psi	ASTM D638
Elongation at Break	5.0 %	5.0 %	ASTM D638
Flexural Strength	179 MPa	26000 psi	ASTM D790
Flexural Modulus	6.07 GPa	880 ksi	ASTM D790
Izod Impact, Notched	1.76 J/cm	3.30 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 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	30.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	192 $\text{Å}^\circ\text{C}$	378 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	177 $\text{Å}^\circ\text{C}$	350 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+11 ohm-cm	1.00e+11 ohm-cm	ASTM D257

Dielectric Strength Electrical Properties	17.7 kV/mm Metric	450 kV/in English	Method A (Short-Time); ASTM D149 Comments
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