

Techmer ES Luriblend[®] PA6/6 T/AL20 HS 10% Aramid Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Aramid Fiber Filled , Nylon 66, Heat Stabilized , Nylon 66, PTFE Filled

Material Notes:

Availability: North America
Forms: Pellets
Filler/Reinforcement: Aramid Fiber, 10% Filler by Weight
Additive: Heat Stabilizer and PTFE Lubricant(10%)
Features: Lubricated, Heat Stabilized, Low Friction and Good Wear Resistance
Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Luriblend-PA66-TAL20-HS-10-Aramid-Filled.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in ³	ASTM D792
Water Absorption	0.75 % @Time 86400 sec	0.75 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0080 cm/cm @Thickness 3.17 mm	0.0080 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	84.8 MPa	12300 psi	ASTM D638
Elongation at Break	4.0 %	4.0 %	ASTM D638
Flexural Strength	138 MPa	20000 psi	ASTM D790
Flexural Modulus	3.45 GPa	500 ksi	ASTM D790
Izod Impact, Notched	0.427 J/cm @Thickness 3.17 mm	0.800 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	66.6 $\mu\text{m/m-}^{\circ}\text{C}$	37.0 $\mu\text{in/in-}^{\circ}\text{F}$	ASTM D696
Melting Point	255 $^{\circ}\text{C}$	491 $^{\circ}\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	232 $^{\circ}\text{C}$	450 $^{\circ}\text{F}$	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	177 $^{\circ}\text{C}$	350 $^{\circ}\text{F}$	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Dielectric Strength	17.7 kV/mm	450 kV/in	Method A (Short-Time); ASTM D149

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