

Techmer ES HiFill® PA6 CM30 HS BK 40% Mineral Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 30% Mineral Filled , Nylon 6 , Heat Stabilized

Material Notes:

Availability: North America
Forms: Pellets
Filler/Reinforcement: Mineral Filler, 40% Filler by Weight
Additive: Heat Stabilizer and Lubricant
Features: Heat Stabilized and Lubricated
Appearance: Black
Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PA6-CM30-HS-BK-40-Mineral-Filled.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	ASTM D792
Water Absorption	1.1 % @Time 86400 sec	1.1 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0090 cm/cm @Thickness 3.17 mm	0.0090 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	ASTM D785
Tensile Strength, Yield	80.0 MPa	11600 psi	ASTM D638
Elongation at Break	12 %	12 %	ASTM D638
Flexural Strength	124 MPa	18000 psi	ASTM D790
Flexural Modulus	4.83 GPa	700 ksi	ASTM D790
Izod Impact, Notched	0.534 J/cm @Thickness 3.17 mm	1.00 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	3.20 J/cm @Thickness 3.17 mm	6.00 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	103 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	57.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	193 $\text{Å}^\circ\text{C}$	380 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	79.4 $\text{Å}^\circ\text{C}$	175 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
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Volume Resistivity Electrical Properties	1.00e+13 ohm-cm Metric	1.00e+13 ohm-cm English	ASTM D257 Comments
Dielectric Strength	18.1 kV/mm	460 kV/in	Method A (Short-Time); ASTM D149

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