

Techmer ES HiFill[®] HDPE TM20 UV BK 20% Talc Filled

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

Material Notes:

Availability: North America
Forms: Pellets
Filler/Reinforcement: Talc Filler, 20% Filler by Weight
Additive: UV Stabilizer
Features: Good UV Resistance
Appearance: Black
Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-HDPE-TM20-UV-BK-20-Talc-Filled.php

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in ³	ASTM D792
Water Absorption	0.020 % @Time 86400 sec	0.020 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.020 cm/cm @Thickness 3.17 mm	0.020 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	50	50	ASTM D785
Tensile Strength, Yield	26.2 MPa	3800 psi	ASTM D638
Elongation at Break	15 %	15 %	ASTM D638
Flexural Strength	379 MPa	55000 psi	ASTM D790
Flexural Modulus	1.24 GPa	180 ksi	ASTM D790
Izod Impact, Notched	0.320 J/cm @Thickness 3.17 mm	0.600 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	3.74 J/cm @Thickness 3.17 mm	7.00 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	88.2 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$	49.0 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
Melting Point	135 $\text{Å}^\circ\text{C}$	275 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	62.8 $\text{Å}^\circ\text{C}$	145 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	46.1 $\text{Å}^\circ\text{C}$	115 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Dielectric Strength	22.0 kV/mm	560 kV/in	Method A (Short-Time); ASTM D149

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