

Techmer ES HiFill[®] HDPE TM10 10% Talc Filled

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

Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Talc Filler, 10% Filler by Weight Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-HDPE-TM10-10-Talc-Filled.php

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 lb/in ³	ASTM D792
Water Absorption	0.020 %	0.020 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.022 cm/cm	0.022 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	30	30	ASTM D785
Tensile Strength, Yield	24.1 MPa	3500 psi	ASTM D638
Elongation at Break	20 %	20 %	ASTM D638
Flexural Strength	25.5 MPa	3700 psi	ASTM D790
Flexural Modulus	0.758 GPa	110 ksi	ASTM D790
Izod Impact, Notched	0.267 J/cm	0.500 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	
Izod Impact, Unnotched	3.20 J/cm	6.00 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	93.6 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	52.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
Melting Point	135 $\text{Å}^\circ\text{C}$	275 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	60.0 $\text{Å}^\circ\text{C}$	140 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	43.3 $\text{Å}^\circ\text{C}$	110 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Dielectric Strength	23.6 kV/mm	600 kV/in	Method A (Short-Time); ASTM D149

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