

Techmer ES HiFill® HDPE TM40 40% Talc Filled

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

Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Talc Filler, 40% 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-TM40-40-Talc-Filled.php

Physical Properties	Metric	English	Comments
Density	1.28 g/cc	0.0462 lb/in ³	ASTM D792
Water Absorption	0.030 %	0.030 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.012 cm/cm	0.012 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	70	70	ASTM D785
Tensile Strength, Yield	32.8 MPa	4750 psi	ASTM D638
Elongation at Break	9.0 %	9.0 %	ASTM D638
Flexural Strength	51.7 MPa	7500 psi	ASTM D790
Flexural Modulus	2.45 GPa	355 ksi	ASTM D790
Izod Impact, Notched	0.481 J/cm	0.900 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	
Izod Impact, Unnotched	4.81 J/cm	9.00 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	73.8 Åµm/m-Å°C	41.0 Åµin/in-Å°F	ASTM D696
Melting Point	135 Å°C	275 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	121 Å°C	250 Å°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	71.1 Å°C	160 Å°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	17.7 kV/mm	450 kV/in	Method A (Short-Time); ASTM D149

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