

Techmer ES HiFill® HDPE TM30 30% Talc Filled

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

Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Talc Filler, 30% 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-TM30-30-Talc-Filled.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ASTM D792
Water Absorption	0.025 %	0.025 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.015 cm/cm	0.015 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	30.3 MPa	4400 psi	ASTM D638
Elongation at Break	12 %	12 %	ASTM D638
Flexural Strength	448 MPa	65000 psi	ASTM D790
Flexural Modulus	1.38 GPa	200 ksi	ASTM D790
Izod Impact, Notched	0.374 J/cm	0.700 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	
Izod Impact, Unnotched	4.27 J/cm	8.00 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	81.0 Åµm/m-Å°C	45.0 Åµin/in-Å°F	ASTM D696
Melting Point	135 Å°C	275 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	98.9 Å°C	210 Å°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	65.6 Å°C	150 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	19.7 kV/mm	500 kV/in	Method A (Short-Time); ASTM D149

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