

Techmer ES HiFill® HDPE

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Injection Molded

Material Notes:

Availability: North America Forms: Pellets Processing Method: Injection Molding Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-HDPE.php

Physical Properties	Metric	English	Comments
Density	0.955 g/cc	0.0345 lb/in ³	ASTM D792
Water Absorption	0.010 %	0.010 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.030 cm/cm	0.030 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	
Melt Flow	20 g/10 min	20 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	45	45	ASTM D785
Tensile Strength, Yield	31.0 MPa	4500 psi	ASTM D638
Elongation at Break	600 %	600 %	ASTM D638
Flexural Strength	41.4 MPa	6000 psi	ASTM D790
Flexural Modulus	1.21 GPa	175 ksi	ASTM D790
Izod Impact, Notched	1.07 J/cm	2.00 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	144 µm/m-°C	80.0 µin/in-°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	60.0 °C	140 °F	Unannealed; ASTM D648

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