

Techmer ES HiFill[®] LDPE 0098 S LE

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

Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Unspecified Filler/Reinfor Additive: Heat Stabilizer Features: Low

Extractables Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-LDPE-0098-S-LE.php

Physical Properties	Metric	English	Comments
Density	0.980 g/cc	0.0354 lb/in ³	ASTM D792
Water Absorption	0.050 % @Time 86400 sec	0.050 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.019 cm/cm @Thickness 3.17 mm	0.019 in/in @Thickness 0.125 in	ASTM D955
Melt Flow	8.0 g/10 min @Load 2.16 kg, Temperature 190 °C	8.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	10.3 MPa	1500 psi	ASTM D638
Elongation at Break	80 %	80 %	ASTM D638
Flexural Strength	15.2 MPa	2200 psi	ASTM D790
Flexural Modulus	0.276 GPa	40.0 ksi	ASTM D790
Izod Impact, Notched	2.67 J/cm @Thickness 3.17 mm	5.00 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	34.2 µm/m-°C	19.0 µin/in-°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	87.8 °C	190 °F	Unannealed; ASTM D648

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