

PolyOne Edgetek® PE-10GF/000 High Density Polyethylene (HDPE), Glass Filled (discontinued **)

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

Material Notes:

Description/Features: Glass Fiber Reinforced PolyOne First Choice Information provided by PolyOne Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Edgetek-PE-10GF000-High-Density-Polyethylene-HDPE-Glass-Filled-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.02 g/cc	1.02 g/cc	ASTM D792
Water Absorption	0.080 %	0.080 %	24 hr. Immersion; ASTM D570
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	57	57	ASTM D785
Tensile Strength, Ultimate	31.0 MPa	4500 psi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Elongation at Break	4.0 %	4.0 %	Type 1 - Rigids, 0.2 in/min; ASTM D638
Tensile Modulus	2.41 GPa	350 ksi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Flexural Strength	45.5 MPa	6600 psi	ASTM D790
Flexural Modulus	2.41 GPa	350 ksi	ASTM D790
Compressive Strength	34.5 MPa	5000 psi	ASTM D695
Izod Impact, Notched	0.747 J/cm @ Thickness 6.35 mm, Temperature 23.0 °C	1.40 ft-lb/in @ Thickness 0.250 in, Temperature 73.4 °F	Method A, Injection Molded; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	127 °C	260 °F	Annealed, 0.125 in bars; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	110 °C	230 °F	Annealed, 0.125 in bars; ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	188 - 221 °C	370 - 430 °F	Molding

Processing Properties	Metric °C	English °F	Comments
Drying Temperature	82.2 °C	180 °F	
Dry Time	2 hour	2 hour	

Descriptive Properties	Value	Comments
Product Form	Pellets	

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