

PolyOne Edgetek® PE-30GF/000 Polyethylene, High Density (HDPE)

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

Material Notes:

Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Edgetek-PE-30GF000-Polyethylene-High-Density-HDPE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	41.4 MPa	6000 psi	Type I, 5.1 mm/min; ASTM D638
Elongation at Break	4.0 %	4.0 %	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	4.14 GPa	600 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Modulus	4.14 GPa	600 ksi	ASTM D790
Izod Impact, Notched	0.800 J/cm @Thickness 6.35 mm, Temperature 23.0 °C	1.50 ft-lb/in @Thickness 0.250 in, Temperature 73.4 °F	Injection Molded; ASTM D256A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	116 °C @Thickness 3.18 mm	241 °F @Thickness 0.125 in	Annealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257

Processing Properties	Metric	English	Comments
Melt Temperature	193 - 221 °C	379 - 430 °F	
Mold Temperature	26.7 - 54.4 °C	80.1 - 130 °F	

Descriptive Properties	Value	Comments
Filler / Reinforcement	Glass Fiber Reinforcement	
Forms	Pellets	

Descriptive Properties	Value	Comments
Generic Name	Polyethylene, High Density (HDPE)	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	

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