



Edgetek™ PE-30GF/000

High Density Polyethylene

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber		
Forms	• Pellets		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.18	1.18	ASTM D792
Molding Shrinkage - Flow	3.0E-3 in/in	0.30 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ²	600000 psi	4140 MPa	ASTM D638
Tensile Strength ² (Break)	6000 psi	41.4 MPa	ASTM D638
Tensile Elongation ² (Break)	4.0 %	4.0 %	ASTM D638
Flexural Modulus	600000 psi	4140 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact 73°F (23°C), 0.250 in (6.35 mm), Injection Molded	1.5 ft·lb/in	80 J/m	ASTM D256A
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm)	240 °F	116 °C	ASTM D648
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Volume Resistivity	1.0E+16 ohms·cm	1.0E+16 ohms·cm	ASTM D257

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Processing (Melt) Temp	380 to 430 °F	193 to 221 °C
Mold Temperature	80.0 to 130 °F	26.7 to 54.4 °C

Notes

¹ Typical values are not to be construed as specifications.

² Type I, 0.20 in/min (5.1 mm/min)

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