



Edgetek™ PE-30GF/000 Black

High Density Polyethylene

Key Characteristics

General	
Material Status	• Commercial: Active
Regional Availability	• North America
Filler / Reinforcement	• Glass Fiber
Forms	• Pellets

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.18	1.18	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.5 g/10 min	2.5 g/10 min	ASTM D1238
Molding Shrinkage - Flow	3.0E-3 in/in	0.30 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ² (Break)	6500 psi	44.8 MPa	ASTM D638
Tensile Elongation ² (Break)	4.0 %	4.0 %	ASTM D638
Flexural Modulus	580000 psi	4000 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)	250 °F	121 °C	ASTM D648
CLTE - Flow	1.6E-5 in/in/°F	2.9E-5 cm/cm/°C	ASTM E831
CLTE - Transverse	6.6E-5 in/in/°F	1.2E-4 cm/cm/°C	ASTM E831

Notes

¹ Typical values are not to be construed as specifications.

² Type I, 0.20 in/min (5.1 mm/min)