

PolyOne Edgetek® AS-10GF/000 BLACK Acrylonitrile Butadiene Styrene (ABS)

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

The Edgetek® Engineering Thermoplastic Compounds portfolio covers a broad range of standard and custom-formulated high performance materials. This portfolio includes high-temperature materials for elevated service temperature environments, high-modulus / structural materials for load-bearing and high-strength applications and flame-retardant products. These compounds are based on select engineering thermoplastic resins that are compounded with reinforcing additives such as carbon fiber, glass fiber and glass beads. Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Edgetek-AS-10GF000-BLACK-Acrylonitrile-Butadiene-Styrene-ABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.11 g/cc	1.11 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm @Thickness 3.18 mm	0.0020 - 0.0040 in/in @Thickness 0.125 in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0075 - 0.010 cm/cm	0.0075 - 0.010 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	58.6 MPa	8500 psi	5.1 mm/min; ASTM D638
Elongation at Break	2.0 - 3.0 %	2.0 - 3.0 %	Type I; ASTM D638
Tensile Modulus	4.07 GPa	590 ksi	5.1 mm/min; ASTM D638
Flexural Strength	95.1 MPa	13800 psi	1.3 mm/min; ASTM D790
Flexural Modulus	3.93 GPa	570 ksi	1.3 mm/min; ASTM D790
Izod Impact, Notched	0.750 J/cm	1.41 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	100 °C	212 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	99.0 °C	210 °F	Unannealed; ASTM D648

Descriptive Properties	Value	Comments
Features	Amorphous	
	Good Moldability	

Descriptive Properties	Good Toughness Value	Comments
Filler / Reinforcement	Glass Fiber Reinforcement, 10% Filler by Weight	
Forms	Pellets	
Generic Material	ABS	
Generic Name	Acrylonitrile Butadiene Styrene (ABS)	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
RoHS Compliance	RoHS Compliant	
Uses	Appliances	
	Automotive Applications	
	Consumer Applications	
	General Purpose	
	Industrial Applications	
	Structural Parts	

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