



## Edgetek™ AS-10GF/000 BLACK

### Acrylonitrile Butadiene Styrene

#### Key Characteristics

##### Product Description

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.

##### General

Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • North America	• South America
Filler / Reinforcement	• Glass Fiber Reinforcement, 10% Filler by Weight		
Features	• Amorphous	• Good Moldability	• Good Toughness
Uses	• Appliances • Automotive Applications	• Consumer Applications • General Purpose	• Industrial Applications • Structural Parts
RoHS Compliance	• RoHS Compliant		
Forms	• Pellets		

#### Technical Properties <sup>1</sup>

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.11	1.11 g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (0.125 in (3.18 mm))	0.0020 to 0.0040 in/in	0.20 to 0.40 %	ASTM D955
Molding Shrinkage - Across Flow	0.0075 to 0.010 in/in	0.75 to 1.0 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus <sup>2</sup>	590000 psi	4070 MPa	ASTM D638
Tensile Strength <sup>2</sup> (Break)	8500 psi	58.6 MPa	ASTM D638
Tensile Elongation <sup>3</sup> (Break)	2.0 to 3.0 %	2.0 to 3.0 %	ASTM D638
Flexural Modulus <sup>4</sup>	570000 psi	3930 MPa	ASTM D790
Flexural Strength <sup>4</sup>	13800 psi	95.1 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact	1.4 ft-lb/in	75 J/m	ASTM D256
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 66 psi (0.45 MPa), Unannealed	212 °F	100 °C	ASTM D648
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed	210 °F	99.0 °C	

#### Notes

<sup>1</sup> Typical values are not to be construed as specifications.

<sup>2</sup> 0.20 in/min (5.1 mm/min)

<sup>3</sup> Type I

<sup>4</sup> 0.050 in/min (1.3 mm/min)

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