

## PolyOne Edgetek® AS-20GF/000 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-20GF000-Acrylonitrile-Butadiene-Styrene-ABS.php](http://www.lookpolymers.com/polymer_PolyOne-Edgetek-AS-20GF000-Acrylonitrile-Butadiene-Styrene-ABS.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ASTM D792
Water Absorption	0.050 %	0.050 %	@ 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0020 - 0.0030 cm/cm	0.0020 - 0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	107	107	ASTM D785
Tensile Strength at Break	70.7 MPa	10300 psi	Type I, 5.1 mm/min; ASTM D638
Elongation at Break	6.0 %	6.0 %	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	117 MPa	17000 psi	ASTM D790
Flexural Modulus	3.45 GPa	500 ksi	ASTM D790
Izod Impact, Notched	0.590 J/cm	1.11 ft-lb/in	Injection Molded; ASTM D256A
	@Thickness 6.35 mm, Temperature 23.0 °C	@Thickness 0.250 in, Temperature 73.4 °F	
	0.610 J/cm	1.14 ft-lb/in	ASTM D256
	@Thickness 3.18 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	36.0 µm/m-°C	20.0 µin/in-°F	ASTM D696
Thermal Conductivity	0.200 W/m-K	1.39 BTU-in/hr-ft²-°F	ASTM C177
Deflection Temperature at 0.46 MPa (66 psi)	98.9 °C	210 °F	Annealed; ASTM D648
	@Thickness 3.18 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	@Thickness 3.18 mm	@Thickness 0.125 in	Annealed, ASTM D648
Flammability, UL94	HB	HB	UL 94

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	ASTM D257

Processing Properties	Metric	English	Comments
Melt Temperature	221 - 249 °C	430 - 480 °F	
Mold Temperature	65.0 - 85.0 °C	149 - 185 °F	
Drying Temperature	80.0 - 85.0 °C	176 - 185 °F	
Dry Time	2.00 hour	2.00 hour	

Descriptive Properties	Value	Comments
Filler / Reinforcement	Glass Fiber Reinforcement, 20% 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	

## Contact Songhan Plastic Technology Co.,Ltd.

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