

## PolyOne Edgetek® AS-20GF/000 HI UV NAT Acrylonitrile Butadiene Styrene (ABS), Glass Filled (discontinued \*\*)&

Category : Polymer , Thermoplastic , ABS Polymer

### Material Notes:

Description/Features: Glass Fiber Reinforced High Impact UV Stabilized Natural UL 94 HB PolyOne First Choice Information provided by PolyOne Corporation.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyOne-Edgetek-AS-20GF000-HI-UV-NAT-Acrylonitrile-Butadiene-Styrene-ABS-Glass-Filled-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_PolyOne-Edgetek-AS-20GF000-HI-UV-NAT-Acrylonitrile-Butadiene-Styrene-ABS-Glass-Filled-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	ASTM D792
Water Absorption	0.18 %	0.18 %	24 hr. Immersion; ASTM D570
Water Absorption at Saturation	0.80 %	0.80 %	Long-Term Immersion; ASTM D570
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	122	122	ASTM D785
Tensile Strength, Ultimate	86.2 MPa	12500 psi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Elongation at Break	3.0 %	3.0 %	Type 1 - Rigids, 0.2 in/min; ASTM D638
Flexural Strength	114 MPa	16500 psi	ASTM D790
Flexural Modulus	5.86 GPa	850 ksi	ASTM D790
Compressive Strength	93.1 MPa	13500 psi	ASTM D695
Shear Strength	44.8 MPa	6500 psi	ASTM D732
Izod Impact, Notched	0.801 J/cm @Thickness 6.35 mm, Temperature 23.0 °C	1.50 ft-lb/in @Thickness 0.250 in, Temperature 73.4 °F	Method A, Injection Molded; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	36.0 µm/m-°C @Temperature 20.0 °C	20.0 µin/in-°F @Temperature 68.0 °F	ASTM D696
Thermal Conductivity	>= 0.202 W/m-K	>= 1.40 BTU-in/hr-ft <sup>2</sup> -°F	ASTM C177

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (0.07 psi)	102.3 °C	215 °F	Annealed, 0.125 in bars; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	98.9 °C	210 °F	Annealed, 0.125 in bars; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257

Processing Properties	Metric	English	Comments
Melt Temperature	227 - 260 °C	440 - 500 °F	Molding
Mold Temperature	37.8 - 93.3 °C	100 - 200 °F	
Drying Temperature	82.2 °C	180 °F	
Dry Time	2 hour	2 hour	

Descriptive Properties	Value	Comments
Product Form	Pellets	

## Contact Songhan Plastic Technology Co.,Ltd.

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