

PolyOne Edgetek® AS-1000 HI Acrylonitrile Butadiene Styrene (ABS) (discontinued **)

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

Description/Features: High Impact PolyOne First Choice Information provided by PolyOne Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Edgetek-AS-1000-HI-Acrylonitrile-Butadiene-Styrene-ABS-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	ASTM D792
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	105	105	ASTM D785
Tensile Strength, Ultimate	40.7 MPa	5900 psi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Tensile Modulus	2.41 GPa	350 ksi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Izod Impact, Notched	3.26 J/cm @ Thickness 3.17 mm, Temperature 23.0 °C	6.10 ft-lb/in @ Thickness 0.125 in, Temperature 73.4 °F	Method A, Injection Molded; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	91.8 µm/m-°C @ Temperature 20.0 °C	51.0 µin/in-°F @ Temperature 68.0 °F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	95.6 °C	204 °F	Annealed, 0.125 in bars; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	90.6 °C	195 °F	Annealed, 0.125 in bars; ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	227 - 249 °C	440 - 480 °F	Molding
Mold Temperature	26.7 - 60.0 °C	80.0 - 140 °F	
Drying Temperature	82.2 °C	180 °F	
Dry Time	2 hour	2 hour	

Descriptive Properties	Value	Comments
Product Form	Pellets	

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