

PolyOne Edgetek® ET3500-5001 colored Acrylonitrile Styrene Acrylate + PC (ASA+PC)

Category : Polymer , Thermoplastic , ASA Polymer , Polycarbonate (PC)

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-ET3500-5001-colored-Acrylonitrile-Styrene-Acrylate-PC-ASAPC.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc @Temperature 23.0 °C	0.0415 lb/in³ @Temperature 73.4 °F	ISO 1183
Water Absorption	0.15 %	0.15 %	@ 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0010 - 0.0040 cm/cm	0.0010 - 0.0040 in/in	ASTM D955
Melt Index of Compound	>= 22 g/10 min @Load 2.16 kg, Temperature 260 °C	>= 22 g/10 min @Load 4.76 lb, Temperature 500 °F	cm³/10min; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	60.0 MPa	8700 psi	ISO 527-2
Elongation at Yield	5.0 %	5.0 %	ISO 527-2
Tensile Modulus	2.50 GPa @Thickness 4.00 mm, Temperature 23.0 °C	363 ksi @Thickness 0.157 in, Temperature 73.4 °F	Injection Molded; ISO 527-2/1
Charpy Impact Unnotched	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179
	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	Injection Molded; ISO 179
Charpy Impact, Notched	1.00 J/cm² @Temperature -30.0 °C	4.76 ft-lb/in² @Temperature -22.0 °F	ISO 179
	4.00 J/cm²	19.0 ft-lb/in²	Injection Molded; ISO 179

Mechanical Properties	@Temperature 23.0 °C Metric	@Temperature 73.4 °F English	Comments
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Thermal Properties	Metric	English	Comments
Vicat Softening Point	117 °C	243 °F	ISO 306/B50
	129 °C	264 °F	ISO 306/A50
Flammability, UL94	HB	HB	UL 94

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	ASTM D257
Surface Resistance	>= 1.00e+14 ohm	>= 1.00e+14 ohm	ASTM D257

Processing Properties	Metric	English	Comments
Melt Temperature	255 - 285 °C	491 - 545 °F	
Mold Temperature	82.0 - 110 °C	180 - 230 °F	
Drying Temperature	120 °C	248 °F	
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	

Descriptive Properties	Value	Comments
Features	Low Warpage	
Forms	Pellets	
Generic Material	ASA+PC	
Generic Name	Acrylonitrile Styrene Acrylate + PC (ASA+PC)	
Regional Availability	Europe	
RoHS Compliance	RoHS Compliant	

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