

# Edgetek™ ET3500-5001

Acrylonitrile Styrene Acrylate + PC

PolyOne Corporation

## Message:

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 Information			
Features	Low Warpage		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.15	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage - Flow	0.10 to 0.20	%	ASTM D955
Water Absorption (24 hr)	0.15	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C, 4.00 mm, Injection Molded)	2600	MPa	ISO 527-2/1
Tensile Stress (Yield)	60.0	MPa	ISO 527-2
Tensile Strain (Yield)	5.0	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C, Injection Molded)	47	kJ/m <sup>2</sup>	ISO 179
Charpy Unnotched Impact Strength (23°C, Injection Molded)	No Break		ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	119	°C	ISO 75-2/B
1.8 MPa, Annealed	102	°C	ISO 75-2/A
Vicat Softening Temperature			
--	128	°C	ISO 306/A
--	116	°C	ISO 306/B
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+14	ohms	ASTM D257
Volume Resistivity	> 1.0E+15	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	3.0 to 4.0	hr	

Processing (Melt) Temp	280 to 320	°C
Mold Temperature	82.0 to 110	°C

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#### Recommended distributors for this material

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