Edgetek™ ET3500-5003

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			
Filler / Reinforcement	Glass Fiber,12% Filler by Weight		
Features	Low Warpage		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density [1] (23°C)	1.23	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/2.16 kg)	17 to 22	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (300°C/21.6 kg)	13.0 to 16.0	cm³/10min	ISO 1133
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)	5900	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C, 4.00 mm, Injection Molded)	100	MPa	ISO 527-2/50
Tensile Strain (Break, 23°C, 4.00 mm, Injection Molded)	2.2	%	ISO 527-2/50
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C, Injection Molded)	8.0	kJ/m²	ISO 179
Charpy Unnotched Impact Strength (23°C, Injection Molded)	37	kJ/m²	ISO 179
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

NOTE	
1.	±0.02

Recommended distributors for this material

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