Edgetek™ ET3500-5001 colored

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/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (260°C/2.16 kg)	> 22.0	cm³/10min	ISO 1133
Molding Shrinkage - Flow	0.10 to 0.40	%	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)	2500	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			ISO 179
-30°C	10	kJ/m²	
23°C, Injection Molded	40	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179
-30°C, Injection Molded	No Break		
23°C	No Break		
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature			
--	129	°C	ISO 306/A50
--	117	°C	ISO 306/B50
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	255 to 285	°C
Mold Temperature	82.0 to 110	°C

Recommended distributors for this material

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