Technical Data Sheet

Edgetek™ CY-1000 UV FR V0

Acrylonitrile Butadiene Styrene + PC

Key Characteristics

Product Description
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			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • North America	• South America
Features	• Flame Retardant		
RoHS Compliance	• RoHS Compliant		
Forms	• Pellets		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.21	1.21 g/cm³	ASTM D792
Molding Shrinkage - Flow	0.0040 to 0.0060 in/in	0.40 to 0.60 %	ASTM D955
Water Absorption (24 hr)	0.10 %	0.10 %	ASTM D570
Outdoor Suitability	f2	f2	UL 746C
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus [2]	310000 psi	2140 MPa	ASTM D638
Tensile Strength (Yield)	8500 psi	58.6 MPa	ASTM D638
Tensile Elongation [2] (Break)	10 %	10 %	ASTM D638
Flexural Modulus	380000 psi	2620 MPa	ASTM D790
Flexural Strength	14000 psi	96.5 MPa	ASTM D790
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Notched Izod Impact			ASTM D256A
73°F (23°C), 0.250 in (6.35 mm), Injection Molded	2.0 ft·lb/in	110 J/m	
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	150 °F	65.6 °C	
Electrical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Surface Resistivity	1.0E+14 ohm	1.0E+14 ohm	ASTM D257
Volume Resistivity	1.0E+17 ohm·cm	1.0E+17 ohm·cm	ASTM D257
Flammability	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Flame Rating (0.0625 in (1.59 mm), ALL)	V-0	V-0	Internal Method

Notes

[1] Typical values are not to be construed as specifications.

[2] Type I, 0.20 in/min (5.1 mm/min)

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