



Edgetek™ CY1000 UV NHFR V0 GR723

Polycarbonate + ABS

Key Characteristics

Product Description			
Non-halogen flame retardant, UV resistant			
General			
Material Status	• Commercial: Active		
Regional Availability	• Asia Pacific		
Additive	• Flame Retardant		
Features	• Flame Retardant	• Good UV Resistance	• Halogen Free
Appearance	• Grey		
Processing Method	• Injection Molding		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.17	1.17	ASTM D792
Molding Shrinkage - Flow	3.0E-3 to 5.0E-3 in/in	0.30 to 0.50 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ²	7250 psi	50.0 MPa	ASTM D638
Flexural Modulus ³	319000 psi	2200 MPa	ASTM D790
Flexural Strength ³	11600 psi	80.0 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact			ASTM D256
73°F (23°C), 0.126 in (3.20 mm)	10 ft-lb/in	550 J/m	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.126 in (3.20 mm)	176 °F	80.0 °C	
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	1.0E+14 ohms	1.0E+14 ohms	ASTM D257
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.0630 in (1.60 mm))	V-0	V-0	UL 94

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 to 212 °F	80.0 to 100 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Rear Temperature	446 to 482 °F	230 to 250 °C
Middle Temperature	446 to 482 °F	230 to 250 °C
Front Temperature	446 to 482 °F	230 to 250 °C
Mold Temperature	158 to 194 °F	70.0 to 90.0 °C

Injection Notes	
Injection Pressure: MED-HIGH	
Hold Pressure: MED-HIGH	
Screw Speed: MODERATE	
Back Pressure: LOW	

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Notes¹ Typical values are not to be construed as specifications.² 2.0 in/min (50 mm/min)³ 0.051 in/min (1.3 mm/min)**CONTACT INFORMATION****Americas**United States - Avon Lake
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