



# Edgetek™ CY1000 UV GR112

## Polycarbonate + ABS

### Key Characteristics

Product Description	
UV resistant, Impact modified	
General	
Material Status	• Commercial: Active
Regional Availability	• Asia Pacific
Additive	• Impact Modifier
Features	• Impact Modified • UV Resistant
Appearance	• Grey
Processing Method	• Injection Molding

### Technical Properties <sup>1</sup>

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.14	1.14	ASTM D792
Molding Shrinkage - Flow	4.0E-3 to 6.0E-3 in/in	0.40 to 0.60 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength <sup>2</sup>	7400 psi	51.0 MPa	ASTM D638
Flexural Modulus <sup>3</sup>	310000 psi	2140 MPa	ASTM D790
Flexural Strength <sup>3</sup>	10200 psi	70.0 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)	11 ft-lb/in	600 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)	230 °F	110 °C	
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	1.0E+14 ohms	1.0E+14 ohms	ASTM D257

### Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 to 212 °F	80 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 to 90 °C

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

**Notes**

<sup>1</sup> Typical values are not to be construed as specifications.

<sup>2</sup> 2.0 in/min (50 mm/min)

<sup>3</sup> 0.051 in/min (1.3 mm/min)



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