



## Edgetek™ CY8000-20GF/000 NC003

### Polybutylene Terephthalate + ASA

#### Key Characteristics

Product Description	
20% glass fiber reinforced PBT/ASA alloy	
General	
Material Status	• Commercial: Active
Regional Availability	• Asia Pacific
Filler / Reinforcement	• Glass Fiber
Appearance	• Natural Color
Processing Method	• Injection Molding

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

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.37	1.37	ASTM D792
Molding Shrinkage	0.30 to 0.70 %	0.30 to 0.70 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength <sup>2</sup>	15200 psi	105 MPa	ASTM D638
Flexural Modulus <sup>3</sup>	885000 psi	6100 MPa	ASTM D790
Flexural Strength <sup>3</sup>	23900 psi	165 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)	2.1 ft-lb/in	110 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)	376 °F	191 °C	
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	> 1.0E+13 ohms	> 1.0E+13 ohms	ASTM D257
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.13 in (3.2 mm))	HB	HB	Internal Method

#### Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 to 212 °F	80 to 100 °C
Drying Time	4.0 to 6.0 hr	4.0 to 6.0 hr
Processing (Melt) Temp	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> 0.20 in/min (5.0 mm/min)

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



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