



Edgetek™ ET3200-8112 RS WT001

Polycarbonate

Key Characteristics

Product Description	
Non-halogen flame retardant, 40% glass fiber reinforced polycarbonate compound	
General	
Material Status	• Commercial: Active
Regional Availability	• Asia Pacific
Filler / Reinforcement	• Glass Fiber, 40% Filler by Weight
Features	• Flame Retardant • Halogen Free
Appearance	• White
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.56	1.56	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/2.16 kg)	15 to 25 g/10 min	15 to 25 g/10 min	ASTM D1238
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ²	16000 psi	110 MPa	ASTM D638
Tensile Elongation ² (Break)	3.0 %	3.0 %	ASTM D638
Flexural Modulus ³	1.31E+6 psi	9000 MPa	ASTM D790
Flexural Strength ³	23200 psi	160 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact 73°F (23°C), 0.126 in (3.20 mm)	1.3 ft-lb/in	70 J/m	ASTM D256
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed, 0.126 in (3.20 mm)	284 °F	140 °C	ASTM D648
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.13 in (3.2 mm))	V-0	V-0	Internal Method

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	230 to 266 °F	110 to 130 °C
Drying Time	4.0 to 6.0 hr	4.0 to 6.0 hr
Rear Temperature	518 to 572 °F	270 to 300 °C
Middle Temperature	518 to 572 °F	270 to 300 °C
Front Temperature	518 to 572 °F	270 to 300 °C
Mold Temperature	176 to 248 °F	80 to 120 °C

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

Notes

¹ Typical values are not to be construed as specifications.

² 0.20 in/min (5.0 mm/min)

³ 0.051 in/min (1.3 mm/min)



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