



Edgetek™ PC-10GF/10T NC048

Polycarbonate

Key Characteristics

Product Description	
3212048	
General	
Material Status	• Commercial: Active
Regional Availability	• Asia Pacific
Filler / Reinforcement	• Glass Fiber, 10% Filler by Weight
Additive	• PTFE Lubricant: 10%
Features	<ul style="list-style-type: none"> • Corrosion Resistant • Good Dimensional Stability • Good Toughness • Halogen Free • High Stiffness • Self Lubricating
Uses	<ul style="list-style-type: none"> • Automotive Applications • Household Goods • Printer Parts • Sporting Goods • Transmission Applications
RoHS Compliance	• RoHS Compliant
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.32	1.32	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/2.16 kg)	6.0 to 12 g/10 min	6.0 to 12 g/10 min	ASTM D1238
Molding Shrinkage - Flow	3.0E-3 to 6.0E-3 in/in	0.30 to 0.60 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ²			ASTM D638
73°F (23°C), 0.126 in (3.20 mm)	11600 psi	80.0 MPa	
Tensile Elongation ²			ASTM D638
Break, 73°F (23°C), 0.126 in (3.20 mm)	3.0 to 5.0 %	3.0 to 5.0 %	
Flexural Modulus	508000 psi	3500 MPa	ASTM D790
Flexural Strength	18900 psi	130 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)	3.6 ft·lb/in	190 J/m	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed	280 °F	138 °C	
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	1.0E+14 to 1.0E+16 ohms	1.0E+14 to 1.0E+16 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	248 to 266 °F	120 to 130 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Processing (Melt) Temp	536 to 572 °F	280 to 300 °C
Mold Temperature	194 to 230 °F	90 to 110 °C

Notes

¹ Typical values are not to be construed as specifications.

² 0.20 in/min (5.0 mm/min)



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