



Edgetek™ PC-10GF/15T BK029

Polycarbonate

Key Characteristics

Product Description			
3212029			
General			
Material Status	• Commercial: Active		
Regional Availability	• Asia Pacific		
Filler / Reinforcement	• Glass Fiber, 10% Filler by Weight		
Additive	• PTFE Lubricant (15%)		
Uses	• Household Goods • Printer Parts • Metal Replacement • Sporting Goods • Transmission Applications		
RoHS Compliance	• RoHS Compliant		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.35	1.35	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			ASTM D638
73°F (23°C), 0.126 in (3.20 mm)	15200 psi	105 MPa	
Flexural Modulus	1.09E+6 psi	7500 MPa	ASTM D790
Flexural Strength	24700 psi	170 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)	3.0 ft-lb/in	160 J/m	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed	275 °F	135 °C	
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	1.0E+16 ohms	1.0E+16 ohms	ASTM D257
Volume Resistivity	1.0E+15 ohms·cm	1.0E+15 ohms·cm	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	554 to 590 °F	290 to 310 °C
Mold Temperature	194 to 230 °F	90.0 to 110 °C

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Notes

¹ Typical values are not to be construed as specifications.

² 0.20 in/min (5.0 mm/min)

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