Stat-Tech™ PC-08CF/000 NH FR BLACK

Polycarbonate

Key Characteristics

Product Description		
Carbon Fiber Filled, Non-Halogen Containing Flame Retardant Polycarbonate Compound		
General		
Material Status	• Commercial: Active	
Regional Availability	• Asia Pacific	
Filler / Reinforcement	• Carbon Fiber	
Features	• Flame Retardant	• Halogen Free
Appearance	• Black	
Processing Method	• Injection Molding	

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.24	1.24	ASTM D792
Molding Shrinkage (0.118 in (3.00 mm))	0.40 to 0.60 %	0.40 to 0.60 %	ISO 294-4
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus [2]	696000 psi	4800 MPa	ASTM D638
Tensile Strength [2]	13100 psi	90.0 MPa	ASTM D638
Tensile Elongation [2] (Break)	3.5 %	3.5 %	ASTM D638
Flexural Modulus [3]	798000 psi	5500 MPa	ASTM D790
Flexural Strength [3]	21000 psi	145 MPa	ASTM D790
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Notched Izod Impact			ASTM D256A
0.126 in (3.20 mm), Injection Molded	1.7 ft·lb/in	90 J/m	
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	282 °F	139 °C	
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	5.0E+2 to 5.0E+4 ohms	5.0E+2 to 5.0E+4 ohms	ASTM D257
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
Processing (Melt) Temp	536 to 590 °F	280 to 310 °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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