Stat-Tech™ MP-10GF-05CF/000 NH FR BLACK

Polyphenylene Ether + PS

Key Characteristics

General		
Material Status	• Commercial: Active	
Regional Availability	• Asia Pacific	
Filler / Reinforcement	• Carbon Fiber	• Glass Fiber
Features	• Flame Retardant	
Appearance	• Black	
Processing Method	• Injection Molding	

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.21	1.21	ASTM D792
Molding Shrinkage - Flow	1.0E-3 to 4.0E-3 in/in	0.10 to 0.40 %	ASTM D955
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus [2]	1.00E+6 psi	6900 MPa	ASTM D638
Tensile Strength [2]	11000 psi	76.0 MPa	ASTM D638
Tensile Elongation [3] (Break)	2.5 %	2.5 %	ASTM D638
Flexural Modulus [4]	900000 psi	6210 MPa	ASTM D790
Flexural Strength [4]	17000 psi	117 MPa	ASTM D790
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Notched Izod Impact			ASTM D256A
73°F (23°C), 0.126 in (3.20 mm), Injection Molded	0.81 ft·lb/in	43 J/m	
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	244 °F	118 °C	
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed	232 °F	111 °C	
Electrical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Surface Resistivity	1.0E+3 to 5.0E+5 ohms	1.0E+3 to 5.0E+5 ohms	ASTM D257
Flammability	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Flame Rating			UL 94
0.06 in (1.5 mm)	V-1	V-1	
0.12 in (3.0 mm)	V-0	V-0	

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	194 to 212 °F	90 to 100 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Processing (Melt) Temp	518 to 572 °F	270 to 300 °C
Mold Temperature	149 to 203 °F	65 to 95 °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] Type I, 0.20 in/min (5.0 mm/min)

[4] 0.051 in/min (1.3 mm/min)

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