Stat-Tech™ ST3200-0020 NHFR Black

Polycarbonate

Key Characteristics

Product Description			
Stat-Tech™ Compound combines PC with conductive reinforcing additives, additionally owns EMI shielding and flame retardancy.			
General			
Material Status	• Commercial: Active		
Regional Availability	• North America		
Features	• Electrically Conductive	• Electromagnetic Shielding (EMI)	• Flame Retardant
Uses	• Aerospace Applications • Computer Components	• Connectors • Electrical Housing	• Electrical/Electronic Applications • Housings
RoHS Compliance	• RoHS Compliant		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.35	1.35	ASTM D792
Molding Shrinkage - Flow	3.0E-3 to 8.0E-3 in/in	0.30 to 0.80 %	ASTM D955
Molding Shrinkage - Across Flow	7.0E-3 to 0.013 in/in	0.70 to 1.3 %	ASTM D955
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Strength (Break)	17000 psi	117 MPa	ASTM D638
Tensile Elongation [2] (Break)	1.5 %	1.5 %	ASTM D638
Flexural Modulus	1.20E+6 psi	8270 MPa	ASTM D790
Flexural Strength	22000 psi	152 MPa	ASTM D790
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Notched Izod Impact			ASTM D256A
73°F (23°C), 0.125 in (3.18 mm), Injection Molded	0.70 ft·lb/in	37 J/m	
Electrical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Surface Resistivity (0.125 in (3.18 mm))	1.0E+2 to 1.0E+4 ohms	1.0E+2 to 1.0E+4 ohms	ASTM D257
Volume Resistivity (0.125 in (3.18 mm))	1.0E+2 to 1.0E+4 ohms·cm	1.0E+2 to 1.0E+4 ohms·cm	ASTM D257
Flammability	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Flame Rating			Internal Method
0.06 in (1.6 mm)	V-0	V-0	
0.13 in (3.2 mm)	V-0	V-0	

Notes

[1] Typical values are not to be construed as specifications.

[2] Type I, 0.20 in/min (5.1 mm/min)