Stat-Tech™ X5 ST6000-5006 FR BLACK

Polyamide 6

Key Characteristics

General	
Material Status	• Commercial: Active
Regional Availability	• Europe
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	1.24	1.24	DIN 53479
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus (73°F (23°C))	1.61E+6 psi	11100 MPa	ISO 527
Tensile Strength (Break, 73°F (23°C))	16000 psi	110 MPa	ISO 527
Tensile Elongation (Break, 73°F (23°C))	2.0 %	2.0 %	ISO 527
Flexural Modulus	1.13E+6 psi	7800 MPa	ISO 178
Flexural Stress	20300 psi	140 MPa	ISO 178
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
73°F (23°C), Injection Molded	1.5 ft·lb/in²	3.1 kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
73°F (23°C), Injection Molded	9.5 ft·lb/in²	20 kJ/m²	
Electrical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Surface Resistivity	1.0E+10 to 1.0E+11 ohms	1.0E+10 to 1.0E+11 ohms	IEC 60093
Flammability	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Flame Rating (0.13 in (3.2 mm))	V-1	V-1	UL 94

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	158 to 194 °F	70 to 90 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Mold Temperature	149 to 203 °F	65 to 95 °C

Notes

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