



Stat-Tech™ X3 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))	19600 psi	135 MPa	ISO 527
Tensile Elongation (Break, 73°F (23°C))	2.0 %	2.0 %	ISO 527
Flexural Modulus	1.10E+6 psi	7600 MPa	ISO 178
Flexural Stress	25400 psi	175 MPa	ISO 178
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength 73°F (23°C), Injection Molded	1.5 ft·lb/in ²	3.1 kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength 73°F (23°C), Injection Molded	11 ft·lb/in ²	22 kJ/m ²	ISO 179/1eU
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	1.0E+9 to 1.0E+10 ohms	1.0E+9 to 1.0E+10 ohms	IEC 60093
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.06 in (1.6 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.