Stat-Tech™ NJ-20CF/000 black

Polyamide 12

Key Characteristics

General	
Material Status	• Commercial: Active
Regional Availability	• Europe
Appearance	• Black
Processing Method	• Injection Molding

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.12 g/cm³	1.12 g/cm³	ISO 1183
Molding Shrinkage	0.10 to 0.20 %	0.10 to 0.20 %	ISO 294-4
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus	1.35E+6 psi	9300 MPa	ISO 527
Tensile Strength	16700 psi	115 MPa	ISO 527
Tensile Strain (Break)	2.0 to 4.0 %	2.0 to 4.0 %	ISO 527-2
Flexural Modulus	638000 psi	4400 MPa	ISO 178
Flexural Strength	15200 psi	105 MPa	ISO 178
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Charpy Notched Impact Strength	4.8 ft·lb/in²	10 kJ/m²	ISO 179
Charpy Unnotched Impact Strength	19 ft·lb/in²	40 kJ/m²	ISO 179
Electrical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Surface Resistivity	< 1.0E+6 ohms	< 1.0E+6 ohms	IEC 60093
Volume Resistivity	< 1.0E+5 ohms·cm	< 1.0E+5 ohms·cm	IEC 60093

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 to 194 °F	80 to 90 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Processing (Melt) Temp	392 to 446 °F	200 to 230 °C
Mold Temperature	149 to 185 °F	65 to 85 °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.

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