

PolyOne Stat-Tech™ NJ-10SS/000 Nylon 12 - 10% Stainless Steel Reinforced (discontinued **)

Category : Polymer , Thermoplastic , Nylon , Nylon 12

Material Notes:

Data provided by PolyOne.

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Stat-Tech-NJ-10SS000-Nylon-12-10-Stainless-Steel-Reinforced-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	ASTM D792
Water Absorption	0.25 % @Thickness 3.17 mm	0.25 % @Thickness 0.125 in	24 hr. Immersion; ASTM D570
Linear Mold Shrinkage	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	43.4 MPa	6300 psi	Type 1 - Rigids, Yield, 0.2 in/min; ASTM D638
Elongation at Break	4.0 - 5.0 %	4.0 - 5.0 %	Type 1 - Rigids, 0.2 in/min; ASTM D638
Tensile Modulus	3.10 GPa	450 ksi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Flexural Strength	71.0 MPa	10300 psi	ASTM D790
Flexural Modulus	3.10 GPa	450 ksi	ASTM D790
Izod Impact, Notched	0.694 J/cm @Thickness 6.35 mm, Temperature 23.0 °C	1.30 ft-lb/in @Thickness 0.250 in, Temperature 73.4 °F	Method A, Injection Molded; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	168 °C	335 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	152 °C	305 °F	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	10 - 100 ohm-cm	10 - 100 ohm-cm	ASTM D257
Surface Resistivity per Square	10 - 100 ohm	10 - 100 ohm	ASTM D257

Shielding Effectiveness Electrical Properties	30 - 60 dB Metric	30 - 60 dB English	1,000 MHz: PolyOne Internal Comments
Processing Properties	Metric	English	Comments
Melt Temperature	238 - 271 °C	460 - 520 °F	Molding

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