

LNP Stat-Kon® SS- Polyamide 12, Stainless Steel Fiber (discontinued **)

Category : Polymer , Thermoplastic , Nylon , Nylon 12

Material Notes:

Features: Electrically ConductiveForms: PelletsProcessing Method: Injection MoldingInformation provided by LNP, a GE Plastics

Company.This data sheet is labeled Discontinued; however many LNP grades are still active under new names instituted after the SABIC purchase.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LNP-Stat-Kon-SS-Polyamide-12-Stainless-Steel-Fiber-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	Method A; ASTM D792
Water Absorption	0.10 %	0.10 %	at 24 hrs; ASTM D570
Linear Mold Shrinkage	0.014 cm/cm	0.014 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.016 - 0.017 cm/cm	0.016 - 0.017 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	33.1 MPa	4800 psi	ASTM D638
Tensile Strength, Yield	47.6 MPa	6900 psi	ASTM D638
Tensile Modulus	1.93 GPa	280 ksi	ASTM D638
Flexural Strength	62.1 MPa	9010 psi	ASTM D790
Flexural Modulus	1.86 GPa	270 ksi	ASTM D790
Izod Impact, Notched	0.427 J/cm @Thickness 3.18 mm	0.800 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	11.1 J/cm @Thickness 3.18 mm	20.8 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Notched (ISO)	5.60 kJ/m ²	2.66 ft-lb/in ²	ISO 180
Izod Impact, Unnotched (ISO)	78.4 kJ/m ²	37.3 ft-lb/in ²	ISO 180
Falling Dart Impact	11.0 J	8.11 ft-lb	ASTM D3763
Impact Test	21.3 J	15.7 ft-lb	Multi-Axial Instrumented Impact Energy; ISO 6603-2

Thermal Properties	Metric	English	Comments
	94.0 μm/m-°C	52.2 μin/in-°F	

CTE, linear Thermal Properties	Metric @ Temperature 20.0 °C	English @ Temperature 68.0 °F	TMA: ASTM E831 Comments
CTE, linear, Transverse to Flow	110 µm/m-°C @Temperature 20.0 °C	61.1 µin/in-°F @Temperature 68.0 °F	TMA; ASTM E831
Deflection Temperature at 0.46 MPa (66 psi)	128 °C	262 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	48.9 °C	120 °F	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	100 - 1.00e+6 ohm	100 - 1.00e+6 ohm	ASTM D4496

Processing Properties	Metric	English	Comments
Melt Temperature	204 °C	399 °F	
Mold Temperature	82.2 - 107 °C	180 - 225 °F	
Drying Temperature	82.2 °C	180 °F	
Dry Time	4 hour	4 hour	
Moisture Content	0.20 %	0.20 %	Suggested
Back Pressure	0.172 - 0.345 MPa	24.9 - 50.0 psi	

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