

SABIC Innovative Plastics LNP STAT-KON IS000XXL PA6.12

Category : Polymer , Thermoplastic , Nylon , Nylon 612

Material Notes:

LNP* STAT-KON* IS000XXL is a compound based on Nylon 6/12 containing Stainless Steel Fibers. Added features of this material include:
Food Contact Compliant Raw Materials, Metal Detectable, Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-IS000XXL-PA612.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ASTM D792
Density	1.18 g/cc	0.0426 lb/in ³	ASTM D792
Moisture Absorption	0.200 %	0.200 %	50% RH, 24 hrs; ASTM D570
	0.290 %	0.290 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	>= 0.020 cm/cm	>= 0.020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.020 - 0.040 cm/cm	0.020 - 0.040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	66.0 MPa	9570 psi	5 mm/min; ISO 527
	67.0 MPa	9720 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	8.5 %	8.5 %	5 mm/min; ISO 527
	10.2 %	10.2 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	9.3 %	9.3 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	3.04 GPa	441 ksi	50 mm/min; ASTM D638
	3.07 GPa	445 ksi	1 mm/min; ISO 527
Flexural Strength	82.0 MPa	11900 psi	ISO 178
Flexural Modulus	2.43 GPa	352 ksi	2 mm/min; ISO 178
	2.67 GPa	387 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.270 J/cm	0.506 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.86 J/cm	9.10 ft-lb/in	ASTM D4812

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched (ISO)	3.00 kJ/m ²	1.34 ft-lb/in ²	80*10*4, ISO 180/1A
Izod Impact, Unnotched (ISO)	35.0 kJ/m ²	16.7 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	2.00 J @Temperature 23.0 Â°C	1.48 ft-lb @Temperature 73.4 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	102 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	56.7 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	119 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	66.1 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	161 Â°C	322 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	180 Â°C @Thickness 3.20 mm	356 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	72.0 Â°C	162 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	92.0 Â°C @Thickness 3.20 mm	198 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	100 - 1.00e+6 ohm	100 - 1.00e+6 ohm	ASTM D257

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