

SABIC Innovative Plastics LNP STAT-KON SX90398 PA 12

Category : Polymer , Thermoplastic , Nylon , Nylon 12

Material Notes:

LNP STAT-KON* SX90398 is a compound based on Nylon 12 resin containing Proprietary Filler(s). Added feature of this material is:
Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-SX90398-PA-12.php

Physical Properties	Metric	English	Comments
Density	1.09 g/cc	0.0394 lb/in ³	ISO 1183
	1.102 g/cc	0.03981 lb/in ³	ASTM D792
Moisture Absorption	0.200 %	0.200 %	50% RH, 24 hrs; ASTM D570
	0.300 %	0.300 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.011 cm/cm	0.011 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0112 cm/cm	0.0112 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.017 cm/cm	0.017 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.017 cm/cm	0.017 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	35.0 MPa	5080 psi	ISO 527
	36.0 MPa	5220 psi	ASTM D638
Tensile Strength, Yield	38.0 MPa	5510 psi	ISO 527
	43.0 MPa	6240 psi	ASTM D638
Elongation at Break	117.2 %	117.2 %	ASTM D638
Elongation at Yield	5.3 %	5.3 %	ASTM D638
Tensile Modulus	1.44 GPa	209 ksi	1 mm/min; ISO 527
	1.90 GPa	276 ksi	50 mm/min; ASTM D638

Flexural Strength Mechanical Properties	50.0 MPa Metric	7250 psi English	ISO 178 Comments
	62.0 MPa	8990 psi	ASTM D790
Flexural Modulus	1.76 GPa	255 ksi	ISO 178
	1.77 GPa	257 ksi	ASTM D790
Izod Impact, Notched	0.740 J/cm	1.39 ft-lb/in	ASTM D256
Izod Impact, Unnotched	NB	NB	ASTM D4812
Izod Impact, Notched (ISO)	7.00 kJ/m ²	3.33 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	85.0 kJ/m ²	40.4 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	9.00 J	6.64 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	20.0 J	14.8 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	103 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	57.2 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	104 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	57.8 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	99.3 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	55.2 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	99.4 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	55.2 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	104 $\text{Å}^\circ\text{C}$	219 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	113 $\text{Å}^\circ\text{C}$	235 $\text{Å}^\circ\text{F}$	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	73.0 $\text{Å}^\circ\text{C}$	163 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	67.0 $\text{Å}^\circ\text{C}$	153 $\text{Å}^\circ\text{F}$	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
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Electrical Properties

Metric 00e+6 ohm

English 00e+6 ohm

Comments

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