

SABIC Innovative Plastics LNP STAT-KON SE003 PA 12

Category : Polymer , Thermoplastic , Nylon , Nylon 12

Material Notes:

LNP* STAT-KON* SE003 is a compound based on Nylon 12 resin containing 15% Carbon Fiber. 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-SE003-PA-12.php

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in ³	ASTM D792
	1.08 g/cc	0.0390 lb/in ³	ISO 1183
Moisture Absorption	0.100 %	0.100 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0030 cm/cm	0.0030 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0050 cm/cm	0.0050 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	104 MPa	15100 psi	ASTM D638
	120 MPa	17400 psi	ISO 527
Tensile Strength, Yield	104 MPa	15100 psi	ASTM D638
Elongation at Break	3.9 %	3.9 %	ASTM D638
	4.0 %	4.0 %	ISO 527
Elongation at Yield	3.8 %	3.8 %	ASTM D638
Tensile Modulus	7.58 GPa	1100 ksi	50 mm/min; ASTM D638
	8.70 GPa	1260 ksi	1 mm/min; ISO 527
Flexural Strength	117 MPa	17000 psi	ASTM D790

Flexural Modulus Mechanical Properties	6.20 GPa Metric	899 ksi English	ASTM D790 Comments
	7.00 GPa	1020 ksi	ISO 178
Izod Impact, Notched	0.850 J/cm	1.59 ft-lb/in	ASTM D256
Izod Impact, Unnotched	7.26 J/cm	13.6 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	11.0 kJ/m ²	5.23 ft-lb/in ²	80*10*4; ISO 180/1A
Dart Drop, Total Energy	13.0 J	9.59 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	88.2 Åµm/m-Å°C	49.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	28.8 Åµm/m-Å°C	16.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	176 Å°C	349 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	160 Å°C	320 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	162 Å°C	324 Å°F	
	@Thickness 3.20 mm	@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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