

SABIC Innovative Plastics LNP STAT-KON RE002 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* STAT-KON* RE002 is a compound based on Nylon 66 resin containing 10% Carbon Fiber. Added features of this material include:
Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-RE002-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in ³	ASTM D792
	1.18 g/cc	0.0426 lb/in ³	ISO 1183
Moisture Absorption	0.800 %	0.800 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0074 cm/cm	0.0074 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.013 cm/cm	0.013 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	126 MPa	18300 psi	ASTM D638
	131 MPa	19000 psi	ISO 527
Tensile Strength, Yield	131 MPa	19000 psi	ISO 527
	134 MPa	19400 psi	ASTM D638
Elongation at Break	2.1 %	2.1 %	ISO 527
	2.3 %	2.3 %	ASTM D638
Elongation at Yield	2.1 %	2.1 %	ISO 527
	2.3 %	2.3 %	ASTM D638
Tensile Modulus	7.80 GPa	1130 ksi	1 mm/min; ISO 527

Mechanical Properties	8.27 GPa Metric	1200 ksi English	50 mm/min; ASTM D638 Comments
Flexural Strength	191 MPa	27700 psi	ISO 178
	206 MPa	29900 psi	ASTM D790
Flexural Modulus	6.00 GPa	870 ksi	ISO 178
	6.89 GPa	999 ksi	ASTM D790
Izod Impact, Notched	0.260 J/cm	0.487 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.63 J/cm	6.80 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	3.00 kJ/mÂ²	1.43 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	24.0 kJ/mÂ²	11.4 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	5.00 J	3.69 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	82.8 Âµm/m-Â°C	46.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	83.0 Âµm/m-Â°C	46.1 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	28.8 Âµm/m-Â°C	16.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	29.0 Âµm/m-Â°C	16.1 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	254 Â°C	489 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	258 Â°C	496 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	241 Â°C	466 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	245 Â°C	473 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Surface Resistance	10 - 1000 ohm	10 - 1000 ohm	ASTM D257

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