

SABIC Innovative Plastics LNP STAT-KON RFD02 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* STAT-KON* RFD02 is a compound based on Nylon 66 resin containing 10% Glass 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-RFD02-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	ASTM D792
	1.30 g/cc	0.0470 lb/in ³	ISO 1183
Moisture Absorption	0.500 %	0.500 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.010 - 0.012 cm/cm	0.010 - 0.012 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.015 cm/cm	0.015 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.014 - 0.016 cm/cm	0.014 - 0.016 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	74.0 MPa	10700 psi	ISO 527
	77.0 MPa	11200 psi	ASTM D638
Elongation at Break	5.1 %	5.1 %	ISO 527
	5.5 %	5.5 %	ASTM D638
Tensile Modulus	7.40 GPa	1070 ksi	1 mm/min; ISO 527
	8.27 GPa	1200 ksi	50 mm/min; ASTM D638
Flexural Strength	131 MPa	19000 psi	ASTM D790
	139 MPa	20200 psi	ISO 178
Flexural Modulus	5.51 GPa	799 ksi	ASTM D790

Mechanical Properties	6.30 GPa Metric	914 ksi English	ISO 178 Comments
Izod Impact, Notched	0.370 J/cm	0.693 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.13 J/cm	3.99 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	3.00 kJ/m ²	1.43 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	14.0 kJ/m ²	6.66 ft-lb/in ²	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	68.4 Åµm/m-Å°C	38.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	69.0 Åµm/m-Å°C	38.3 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	46.8 Åµm/m-Å°C	26.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	48.0 Åµm/m-Å°C	26.7 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	256 Å°C	493 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	252 Å°C	486 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	239 Å°C	462 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	236 Å°C	457 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	100 ohm - 1e+05	100 ohm - 1e+05	ASTM D257

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