

SABIC Innovative Plastics LNP STAT-KON RFD04 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP STAT-KON* RFD04 is a compound based on Nylon 66 resin containing 20% 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-RFD04-PA-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	ASTM D792
Density	1.39 g/cc	0.0502 lb/in ³	ASTM D792
	1.39 g/cc	0.0502 lb/in ³	ISO 1183
Moisture Absorption	0.500 %	0.500 %	50% RH, 24 hrs; ASTM D570
	0.750 %	0.750 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0061 cm/cm	0.0061 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0135 cm/cm	0.0135 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	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	117 MPa	17000 psi	ISO 527
	119 MPa	17300 psi	5 mm/min; ISO 527
	124 MPa	18000 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.3 %	1.3 %	ISO 527
	1.6 %	1.6 %	5 mm/min; ISO 527
	1.6 %	1.6 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	8.78 GPa	1270 ksi	1 mm/min; ISO 527

Mechanical Properties	9.20 GPa Metric	1330 ksi English	50 mm/min; ASTM D638 Comments
Flexural Strength	185 MPa	26800 psi	ISO 178
	190 MPa	27600 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	8.17 GPa	1180 ksi	2 mm/min; ISO 178
	8.54 GPa	1240 ksi	1.3 mm/min, 50 mm span; ASTM D790
	8.60 GPa	1250 ksi	ISO 178
Izod Impact, Notched	0.360 J/cm	0.674 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.01 J/cm	5.64 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)	20.0 kJ/m ²	9.52 ft-lb/in ²	80*10*3; ISO 180/1U
Dart Drop, Total Energy	3.00 J @Temperature 23.0 Â°C	2.21 ft-lb @Temperature 73.4 Â°F	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	32.2 Âµm/m-Â°C	17.9 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	34.0 Âµm/m-Â°C	18.9 Âµin/in-Â°F	ASTM D696
	@Temperature -30.0 - 30.0 Â°C	@Temperature -22.0 - 86.0 Â°F	
CTE, linear, Transverse to Flow	61.0 Âµm/m-Â°C	33.9 Âµin/in-Â°F	ASTM D696
	@Temperature -30.0 - 30.0 Â°C	@Temperature -22.0 - 86.0 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	64.6 Âµm/m-Â°C	35.9 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 1.8 MPa	257 Â°C	495 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	259 Â°C @Thickness 3.20 mm	498 Â°F @Thickness 0.126 in	
	242 Â°C	468 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/ Af

(264 psi) Thermal Properties	Metric	English	Comments
	248 Å°C	478 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Surface Resistance	1000 - 1.00e+7 ohm	1000 - 1.00e+7 ohm	ASTM D257

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China