

SABIC Innovative Plastics LNP STAT-KON RD000IXP PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP STAT-KON* RD000IXP is a compound based on Nylon 66 resin containing Carbon Powder. Added features of this material include:
Electrically Conductive, High Impact.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-RD000IXP-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in ³	ISO 1183
	1.19 g/cc	0.0430 lb/in ³	ASTM D792
Moisture Absorption	0.630 %	0.630 %	50% RH, 24 hrs; ASTM D570
	0.630 %	0.630 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	>= 0.020 cm/cm	>= 0.020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0292 cm/cm	0.0292 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.020 - 0.040 cm/cm	0.020 - 0.040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0317 cm/cm	0.0317 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.0 MPa	7250 psi	5 mm/min; ISO 527
	53.0 MPa	7690 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	51.0 MPa	7400 psi	5 mm/min; ISO 527
	54.0 MPa	7830 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	12.2 %	12.2 %	Type I, 5 mm/min; ASTM D638
	14.6 %	14.6 %	5 mm/min; ISO 527
Elongation at Yield	12 %	12 %	Type I, 5 mm/min; ASTM D638
	14.3 %	14.3 %	5 mm/min; ISO 527

Tensile Modulus Mechanical Properties	2.23 GPa Metric	323 ksi English	1 mm/min; ISO 527 Comments
	2.69 GPa	390 ksi	50 mm/min; ASTM D638
Flexural Strength	83.0 MPa	12000 psi	ISO 178
Flexural Modulus	2.49 GPa	361 ksi	1.3 mm/min, 50 mm span; ASTM D790
	2.59 GPa	376 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.740 J/cm	1.39 ft-lb/in	ASTM D256
Izod Impact, Unnotched	10.6 J/cm	19.9 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	9.00 kJ/m ²	4.28 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	111 kJ/m ²	52.8 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	10.0 J @Temperature 23.0 Â°C	7.38 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	22.0 J	16.2 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	88.7 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	49.3 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	87.1 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	48.4 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	190 Â°C	374 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	216 Â°C @Thickness 3.20 mm	421 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	65.0 Â°C	149 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	71.0 Â°C @Thickness 3.20 mm	160 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	2.0 - 6.0 ohm	2.0 - 6.0 ohm	ASTM D257

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