

SABIC Innovative Plastics LNP STAT-KON RD000I PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* STAT-KON* RD000I 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-RD000I-PA-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	ASTM D792
Density	1.15 g/cc	0.0415 lb/in ³	ISO 1183
Moisture Absorption	0.490 %	0.490 %	50% RH, 24 hrs; ASTM D570
	0.730 %	0.730 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	>= 0.020 cm/cm @Time 86400 sec	>= 0.020 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.020 - 0.040 cm/cm @Time 86400 sec	0.020 - 0.040 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	41.0 MPa	5950 psi	Type I, 5 mm/min; ASTM D638
	41.0 MPa	5950 psi	5 mm/min; ISO 527
Elongation at Break	18 %	18 %	Type I, 5 mm/min; ASTM D638
	18 %	18 %	5 mm/min; ISO 527
Tensile Modulus	2.12 GPa	307 ksi	50 mm/min; ASTM D638
	2.19 GPa	318 ksi	1 mm/min; ISO 527
Flexural Strength	62.0 MPa	8990 psi	ISO 178
Flexural Modulus	1.92 GPa	278 ksi	1.3 mm/min, 50 mm span; ASTM D790
	2.02 GPa	293 ksi	2 mm/min; ISO 178
Izod Impact, Notched	1.37 J/cm	2.57 ft-lb/in	ASTM D256
Izod Impact, Unnotched	18.1 J/cm	33.9 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	14.0 kJ/m ²	6.66 ft-lb/in ²	80*10*4; ISO 180/1A

Mechanical Properties	Metric	English	Comments
Izod Impact, Unnotched (ISO)	155 kJ/m ²	73.4 ft-lb/in ²	80*10*4, ISO 180/1U
Dart Drop, Total Energy	16.0 J @Temperature 23.0 Â°C	11.8 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	20.0 J	14.8 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	109 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	60.6 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	118 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	65.6 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Thermal Conductivity	2.80 W/m-K	19.4 BTU-in/hr-ftÂ²-Â°F	ASTM E 1530
Deflection Temperature at 0.46 MPa (66 psi)	191 Â°C	376 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	206 Â°C @Thickness 3.20 mm	403 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	68.0 Â°C	154 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	100 - 1.00e+6 ohm	100 - 1.00e+6 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