

SABIC Innovative Plastics LNP STAT-KON RD000 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP STAT-KON* RD000 is a compound based on Nylon 66 resin containing Carbon Powder. Added feature of this material is: Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-RD000-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	ASTM D792
Moisture Absorption	0.540 %	0.540 %	50% RH, 24 hrs; ASTM D570
	0.960 %	0.960 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0265 cm/cm	0.0265 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.027 cm/cm	0.027 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.024 cm/cm	0.024 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0244 cm/cm	0.0244 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	64.0 MPa	9280 psi	ISO 527
	67.0 MPa	9720 psi	ASTM D638
Elongation at Break	4.5 %	4.5 %	ASTM D638
	7.6 %	7.6 %	ISO 527
Tensile Modulus	3.10 GPa	450 ksi	1 mm/min; ISO 527
	3.17 GPa	460 ksi	50 mm/min; ASTM D638
Flexural Strength	95.0 MPa	13800 psi	ASTM D790
	96.0 MPa	13900 psi	ISO 178
Flexural Modulus	2.75 GPa	399 ksi	ASTM D790

Mechanical Properties	3.00 GPa Metric	435 ksi English	ISO 178 Comments
Izod Impact, Notched	1.06 J/cm	1.99 ft-lb/in	ASTM D256
Izod Impact, Unnotched	10.68 J/cm	20.01 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	7.00 kJ/m ²	3.33 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	90.0 kJ/m ²	42.8 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	9.00 J	6.64 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	79.2 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	44.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	79.7 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	44.3 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	81.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	45.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	81.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	45.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	218 $\text{Å}^\circ\text{C}$	424 $\text{Å}^\circ\text{F}$	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	77.0 $\text{Å}^\circ\text{C}$	171 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	94.0 $\text{Å}^\circ\text{C}$	201 $\text{Å}^\circ\text{F}$	
	@Thickness 3.20 mm	@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

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