

SABIC Innovative Plastics LNP STAT-KON RX06001 PA 66 (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* Stat-kon* RX06001 is a compound based on Nylon 66 resin containing Carbon Fiber. Added features of this material include: Easy Molding, High Impact, Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-RX06001-PA-66-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	on Tensile Bar; SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	135 MPa	19600 psi	5 mm/min; ISO 527
Tensile Strength, Yield	82.0 MPa	11900 psi	5 mm/min; ISO 527
Elongation at Break	3.5 %	3.5 %	5 mm/min; ISO 527
Elongation at Yield	2.0 %	2.0 %	5 mm/min; ISO 527
Tensile Modulus	8.30 GPa	1200 ksi	1 mm/min; ISO 527
Flexural Strength	173 MPa	25100 psi	2 mm/min; ISO 178
Flexural Yield Strength	182 MPa	26400 psi	2 mm/min; ISO 178
Flexural Modulus	6.00 GPa	870 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	11.0 kJ/m ²	5.23 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	50.0 kJ/m ²	23.8 ft-lb/in ²	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	23.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	12.8 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature 23.0 - 60.0 $\text{Å}^\circ\text{C}$	@Temperature 73.4 - 140 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	109 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	60.6 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature 23.0 - 60.0 $\text{Å}^\circ\text{C}$	@Temperature 73.4 - 140 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	249 $\text{Å}^\circ\text{C}$	480 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf

Thermal Properties	Metric	English	Comments
Temperature at 1.8 MPa (264 psi)	220 A C	420 A F	Flatw 80*10*4 sp=64mm; ISO 75/Af

Electrical Properties	Metric	English	Comments
Surface Resistance	10000 ohm - 1e+05	10000 ohm - 1e+05	ASTM D257

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