

SABIC Innovative Plastics LNP STAT-KON RX08408 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* STAT-KON* RX08404 is a compound based on Nylon 66 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-RX08408-PA-66.php

Physical Properties	Metric	English	Comments
Moisture Absorption	0.600 %	0.600 %	50% RH, 24 hrs; ASTM D570
	0.870 %	0.870 %	23Â°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	0.030 - 0.050 cm/cm	0.030 - 0.050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	46.0 MPa	6670 psi	Type I, 5 mm/min; ASTM D638
	47.0 MPa	6820 psi	5 mm/min; ISO 527
Elongation at Break	26 %	26 %	Type I, 5 mm/min; ASTM D638
	26 %	26 %	5 mm/min; ISO 527
Tensile Modulus	1.93 GPa	280 ksi	1 mm/min; ISO 527
	1.96 GPa	284 ksi	50 mm/min; ASTM D638
Flexural Strength	61.0 MPa	8850 psi	ISO 178
Flexural Modulus	1.76 GPa	255 ksi	1.3 mm/min, 50 mm span; ASTM D790
	1.85 GPa	268 ksi	2 mm/min; ISO 178
Izod Impact, Notched	1.41 J/cm	2.64 ft-lb/in	ASTM D256
Izod Impact, Unnotched	17.2 J/cm	32.2 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	12.0 kJ/mÂ²	5.71 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	196 kJ/mÂ²	93.3 ft-lb/inÂ²	80*10*4; ISO 180/1U
	22.0 J	16.2 ft-lb	

Mechanical Properties	Metric @ Temperature 23.0 Â°C	English @ Temperature 73.4 Â°F	Comments ASTM D2753
Impact Test	25.0 J	18.4 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	110 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	61.1 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	114 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	63.3 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	165 Â°C	329 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	195 Â°C @Thickness 3.20 mm	383 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	117 Â°C	243 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	60.0 Â°C @Thickness 3.20 mm	140 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1000 - 1.00e+6 ohm- cm	1000 - 1.00e+6 ohm- cm	ASTM D257
Surface Resistance	1000 - 1.00e+6 ohm	1000 - 1.00e+6 ohm	ASTM D257

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