

SABIC Innovative Plastics LNP Stat-kon RX08408_NA1D004 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* Stat-Kon* RX08404_NA1D004 is a compound based on Nylon 66 containing Carbon Powder. Characteristics of this grade include: Electrically Conductive, High Impact. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Stat-kon-RX08408NA1D004-PA-66.php

Physical Properties	Metric	English	Comments
Moisture Absorption at Equilibrium	0.87 %	0.87 %	23Â°C / 50% RH; ISO 62
	0.60 % @Time 86400 sec	0.60 % @Time 24.0 hour	50% RH; ASTM D 570
Linear Mold Shrinkage, Flow	0.030 - 0.050 cm/cm @Time 86400 sec	0.030 - 0.050 in/in @Time 24.0 hour	ASTM D 955
	0.030 - 0.050 cm/cm @Time 86400 sec	0.030 - 0.050 in/in @Time 24.0 hour	ASTM D 955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	46.0 MPa	6670 psi	Type I, 5 mm/min; ASTM D 638
	47.0 MPa	6820 psi	5 mm/min; ISO 527
Elongation at Break	26 %	26 %	Type I, 5 mm/min; ASTM D 638
	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 D 638
Flexural Strength	61.0 MPa	8850 psi	ISO 178
Flexural Modulus	1.76 GPa	255 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	1.85 GPa	268 ksi	2 mm/min; ISO 178
Izod Impact, Notched	1.41 J/cm @Temperature 23.0 Â°C	2.64 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
	17.2 J/cm @Temperature 23.0	32.2 ft-lb/in	ASTM D 4812

Mechanical Properties	Metric °C	English @Temperature 73.4 °F	Comments
Izod Impact, Notched (ISO)	12.0 kJ/m ² @Temperature 23.0 °C	5.71 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	196 kJ/m ² @Temperature 23.0 °C	93.3 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1U
Impact Test	25.0 J	18.4 ft-lb	Multiaxial Impact; ISO 6603
	22.0 J @Temperature 23.0 °C	16.2 ft-lb @Temperature 73.4 °F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	110 µm/m-°C @Temperature -30.0 - 30.0 °C	61.1 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D 696
CTE, linear, Transverse to Flow	114 µm/m-°C @Temperature -30.0 - 30.0 °C	63.3 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D 696
Deflection Temperature at 0.46 MPa (66 psi)	165 °C	329 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	195 °C @Thickness 3.20 mm	383 °F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	117 °C	243 °F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	60.0 °C @Thickness 3.20 mm	140 °F @Thickness 0.126 in	unannealed; ASTM D 648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1000 - 1.00e+6 ohm-cm	1000 - 1.00e+6 ohm-cm	ASTM D 257
Surface Resistance	1000 - 1.00e+6 ohm	1000 - 1.00e+6 ohm	ASTM D 257

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