

SABIC Innovative Plastics LNP STAT-KON RE004MPC PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* STAT-KON* RE004MPC is a compound based on Nylon 66 resin containing 20% Milled Carbon Fiber. Added features of this material are: Exceptional Processing, Clean Compound System, Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-RE004MPC-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.25 g/cc	0.0452 lb/in ³	ISO 1183
	1.25 g/cc	0.0452 lb/in ³	ASTM D792
Moisture Absorption	0.840 %	0.840 %	23 ^o C / 50% RH; ISO 62
	0.840 %	0.840 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	127 MPa	18400 psi	5 mm/min; ISO 527
	130 MPa	18900 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	3.4 %	3.4 %	Type I, 5 mm/min; ASTM D638
	5.5 %	5.5 %	5 mm/min; ISO 527
Tensile Modulus	13.86 GPa	2010 ksi	1 mm/min; ISO 527
	21.81 GPa	3163 ksi	50 mm/min; ASTM D638
Flexural Strength	168 MPa	24400 psi	1.3 mm/min, 50 mm span; ASTM D790
	207 MPa	30000 psi	ISO 178
Flexural Modulus	6.66 GPa	966 ksi	1.3 mm/min, 50 mm span; ASTM D790
	9.85 GPa	1430 ksi	2 mm/min; ISO 178
Izod Impact, Unnotched	9.47 J/cm	17.7 ft-lb/in	ASTM D4812

Izod Impact, Notched (ISO) Mechanical Properties	5.00 kJ/mÂ² Metric	2.38 ft-lb/inÂ² English	80*10*4- ISO 180/1A Comments
Izod Impact, Unnotched (ISO)	60.0 kJ/mÂ²	28.6 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	8.00 J @Temperature 23.0 Â°C	5.90 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	24.2 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	13.4 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	89.7 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	49.8 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	243 Â°C	469 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	250 Â°C @Thickness 3.20 mm	482 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	209 Â°C	408 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	209 Â°C @Thickness 3.20 mm	408 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	3.0 - 5.0 ohm	3.0 - 5.0 ohm	ASTM D257

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