

SABIC Innovative Plastics LNP Stat-kon RE003 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP STAT-KON* RE003 is a compound based on Nylon 66 resin containing Carbon Fiber. Added features of this material include:
Electrically Conductive. 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-RE003-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ISO 1183
	1.203 g/cc	0.04346 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	1.47 %	1.47 %	23°C / 50% RH; ISO 62
	0.93 % @Time 86400 sec	0.93 % @Time 24.0 hour	50% RH; ASTM D 570
Linear Mold Shrinkage, Flow	0.0017 - 0.0026 cm/cm @Time 86400 sec	0.0017 - 0.0026 in/in @Time 24.0 hour	ISO 294
	0.0020 - 0.0030 cm/cm @Time 86400 sec	0.0020 - 0.0030 in/in @Time 24.0 hour	ASTM D 955
Linear Mold Shrinkage, Transverse	0.0068 - 0.0078 cm/cm @Time 86400 sec	0.0068 - 0.0078 in/in @Time 24.0 hour	ISO 294
	0.0070 - 0.0080 cm/cm @Time 86400 sec	0.0070 - 0.0080 in/in @Time 24.0 hour	ASTM D 955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	180 MPa	26100 psi	ISO 527
	201 MPa	29200 psi	ASTM D 638
Elongation at Break	2.4 %	2.4 %	ISO 527
	2.6 %	2.6 %	ASTM D 638
Tensile Modulus	11.55 GPa	1675 ksi	1 mm/min; ISO 527
	11.72 GPa	1700 ksi	50 mm/min; ASTM D 638
Flexural Strength	287 MPa	41600 psi	ISO 178
	302 MPa	43800 psi	ASTM D 790

Mechanical Properties	Metric	English	Comments
Flexural Modulus	10.65 GPa	1533 ksi	ISO 178
	11.26 GPa	1633 ksi	ASTM D 790
Izod Impact, Notched	0.640 J/cm @Temperature 23.0 Â°C	1.20 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	4.32 J/cm @Temperature 23.0 Â°C	8.09 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	5.00 kJ/mÂ² @Temperature 23.0 Â°C	2.38 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	42.0 kJ/mÂ² @Temperature 23.0 Â°C	20.0 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603
	8.00 J @Temperature 23.0 Â°C	5.90 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Energy @ peak; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	24.3 Âµm/m-Â°C	13.5 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	24.3 Âµm/m-Â°C	13.5 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	68.5 Âµm/m-Â°C	38.1 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	68.6 Âµm/m-Â°C	38.1 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	250 Â°C	482 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	260 Â°C @Thickness 3.20 mm	500 Â°F @Thickness 0.126 in	

Deflection Temperature at 1.8 MPa Thermal Properties	Metric	English	Comments
	250 Å°C	482 Å°F	unannealed; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Surface Resistance	100 - 1.00e+6 ohm	100 - 1.00e+6 ohm	ASTM D 257

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