

SABIC Innovative Plastics LNP STAT-KON RE0039 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP STAT-KON* RE0039 is a compound based on Nylon 66 resin containing 15% Carbon Fiber. Added features of this material include:
Electrically Conductive, Flame Retardant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-RE0039-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.44 g/cc	0.0520 lb/in ³	ASTM D792
Moisture Absorption	0.550 %	0.550 %	50% RH, 24 hrs; ASTM D570
	0.870 %	0.870 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0017 - 0.0026 cm/cm	0.0017 - 0.0026 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0020 - 0.0030 cm/cm	0.0020 - 0.0030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0068 - 0.0078 cm/cm	0.0068 - 0.0078 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0070 - 0.0080 cm/cm	0.0070 - 0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	205 MPa	29700 psi	ASTM D638
	209 MPa	30300 psi	ISO 527
Elongation at Break	2.2 %	2.2 %	ASTM D638
	2.2 %	2.2 %	ISO 527
Tensile Modulus	15.6 GPa	2260 ksi	1 mm/min; ISO 527
	17.58 GPa	2550 ksi	50 mm/min; ASTM D638
Flexural Strength	297 MPa	43100 psi	ASTM D790
	318 MPa	46100 psi	ISO 178
Flexural Modulus	11.44 GPa	1659 ksi	ASTM D790

Mechanical Properties	14.2 GPa Metric	2060 ksi English	ISO 178 Comments
Izod Impact, Notched	0.740 J/cm	1.39 ft-lb/in	ASTM D256
Izod Impact, Unnotched	7.04 J/cm	13.2 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	8.00 kJ/mÂ²	3.81 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	46.0 kJ/mÂ²	21.9 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	8.00 J	5.90 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	45.7 Âµm/m-Â°C	25.4 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	45.7 Âµm/m-Â°C	25.4 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	66.0 Âµm/m-Â°C	36.7 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	66.1 Âµm/m-Â°C	36.7 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	228 Â°C	442 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	247 Â°C	477 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Flammability, UL94	V-0	V-0	UL 94 by SABIC-IP
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	5VA	5VA	UL 94 by SABIC-IP
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Electrical Properties	Metric	English	Comments
Surface Resistance	100 - 1.00e+6 ohm	100 - 1.00e+6 ohm	ASTM D257

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