

SABIC Innovative Plastics LNP STAT-KON RE006 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP STAT-KON* RE006 is a compound based on Nylon 66 resin containing 30% Carbon Fiber. Added features of this material include:
Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-RE006-PA-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.27 g/cc	1.27 g/cc	ASTM D792
Density	1.27 g/cc	0.0459 lb/in ³	ASTM D792
Moisture Absorption	0.720 %	0.720 %	50% RH, 24 hrs; ASTM D570
	1.10 %	1.10 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0080 - 0.010 cm/cm	0.0080 - 0.010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	238 MPa	34500 psi	5 mm/min; ISO 527
	246 MPa	35700 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.3 %	2.3 %	5 mm/min; ISO 527
	2.5 %	2.5 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	20.33 GPa	2949 ksi	1 mm/min; ISO 527
	22.2 GPa	3220 ksi	5 mm/min; ASTM D638
Flexural Strength	268 MPa	38900 psi	1.3 mm/min, 50 mm span; ASTM D790
	355 MPa	51500 psi	ISO 178
Flexural Yield Strength	368 MPa	53400 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	16.95 GPa	2458 ksi	2 mm/min; ISO 178
	17.6 GPa	2550 ksi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	1 19 J/cm Metric	2 23 ft-lb/in English	ASTM D256 Comments
Izod Impact, Unnotched	10.3 J/cm	19.3 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	10.0 kJ/m ²	4.76 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	61.0 kJ/m ²	29.0 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	9.00 J @Temperature 23.0 Â°C	6.64 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	33.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	18.3 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	48.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	26.7 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	259 Â°C	498 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	261 Â°C @Thickness 3.20 mm	502 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	248 Â°C	478 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	255 Â°C @Thickness 3.20 mm	491 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	100 ohm - 1e+05	100 ohm - 1e+05	ASTM D257

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