

SABIC Innovative Plastics LNP STAT-KON REL33 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP STAT-KON* REL33 is a compound based on Nylon 66 resin containing 15% Carbon Fiber, 15% PTFE. Added features of this material include: Electrically Conductive, Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-REL33-PA-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.29 g/cc	1.29 g/cc	ASTM D792
Density	1.29 g/cc	0.0466 lb/in ³	ISO 1183
	1.30 g/cc	0.0470 lb/in ³	ASTM D792
Moisture Absorption	0.610 %	0.610 %	50% RH, 24 hrs; ASTM D570
	0.900 %	0.900 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 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	164 MPa	23800 psi	5 mm/min; ISO 527
	169 MPa	24500 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	164 MPa	23800 psi	5 mm/min; ISO 527
	169 MPa	24500 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.4 %	2.4 %	5 mm/min; ISO 527
	2.7 %	2.7 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	2.4 %	2.4 %	5 mm/min; ISO 527
	2.7 %	2.7 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	11.71 GPa	1698 ksi	1 mm/min; ISO 527
	12.52 GPa	1816 ksi	50 mm/min; ASTM D638
Flexural Strength	231 MPa	33500 psi	ISO 178

Mechanical Properties	Metric	English	Comments
Flexural Yield Strength	237 MPa	34400 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	8.58 GPa	1240 ksi	2 mm/min; ISO 178
	8.73 GPa	1270 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.580 J/cm	1.09 ft-lb/in	ASTM D256
Izod Impact, Unnotched	7.32 J/cm	13.7 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	44.0 kJ/m ²	20.9 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	7.00 J @Temperature 23.0 Â°C	5.16 ft-lb @Temperature 73.4 Â°F	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	2.00 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	1.11 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	9.00 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	5.00 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	260 Â°C	500 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)	244 Â°C	471 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	253 Â°C @Thickness 3.20 mm	487 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	1.0 - 4.0 ohm	1.0 - 4.0 ohm	ASTM D257

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