

SABIC Innovative Plastics LNP STAT-KON RE0029 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* STAT-KON* RE0029 is a compound based on Nylon 66 resin containing 10% 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-RE0029-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.46 g/cc	0.0527 lb/in ³	ASTM D792
	1.46 g/cc	0.0527 lb/in ³	ISO 1183
Moisture Absorption	0.400 %	0.400 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0044 cm/cm	0.0044 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.011 cm/cm	0.011 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	126 MPa	18300 psi	ISO 527
	131 MPa	19000 psi	ASTM D638
Tensile Strength, Yield	126 MPa	18300 psi	ISO 527
	131 MPa	19000 psi	ASTM D638
Elongation at Break	1.6 %	1.6 %	ISO 527
	1.7 %	1.7 %	ASTM D638
Elongation at Yield	1.6 %	1.6 %	ISO 527
	1.7 %	1.7 %	ASTM D638
Tensile Modulus	10.21 GPa	1481 ksi	1 mm/min; ISO 527

Mechanical Properties	11.03 GPa Metric	1600 ksi English	50 mm/min; ASTM D638 Comments
Flexural Strength	179 MPa	26000 psi	ASTM D790
	186 MPa	27000 psi	ISO 178
Flexural Modulus	8.27 GPa	1200 ksi	ASTM D790
	9.00 GPa	1310 ksi	ISO 178
Izod Impact, Notched	0.320 J/cm	0.599 ft-lb/in	ASTM D256
Izod Impact, Unnotched	13.29 J/cm	24.90 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	4.00 kJ/mÂ²	1.90 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	24.0 kJ/mÂ²	11.4 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	5.00 J	3.69 ft-lb	Instrumented Impact Energy @ peak; 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	64.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	35.6 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
	64.8 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	36.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
CTE, linear, Transverse to Flow	25.2 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	14.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	26.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	14.4 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	253 Â°C	487 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	256 Â°C @Thickness 3.20 mm	493 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	233 Â°C	451 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	238 Â°C @Thickness 3.20 mm	460 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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

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