

SABIC Innovative Plastics LNP STAT-KON REP349 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* STAT-KON* REP349 is a compound based on Nylon 66 resin containing 15% PTFE/Silicone, 20% Carbon Fiber. 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-REP349-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.54 g/cc	0.0556 lb/in ³	ASTM D792
	1.54 g/cc	0.0556 lb/in ³	ISO 1183
Moisture Absorption	0.400 %	0.400 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0018 cm/cm	0.0018 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	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	0.0067 cm/cm	0.0067 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	167 MPa	24200 psi	ASTM D638
	168 MPa	24400 psi	
Tensile Strength, Yield	167 MPa	24200 psi	ASTM D638
	168 MPa	24400 psi	
Elongation at Break	1.7 %	1.7 %	ISO 527
	1.8 %	1.8 %	
Elongation at Yield	1.7 %	1.7 %	ISO 527
	1.8 %	1.8 %	
Tensile Modulus	18.17 GPa	2635 ksi	1 mm/min; ISO 527

Mechanical Properties	19.3 GPa Metric	2800 ksi English	50 mm/min; ASTM D638 Comments
Flexural Strength	255 MPa	37000 psi	ASTM D790
	263 MPa	38100 psi	ISO 178
Flexural Modulus	15.16 GPa	2199 ksi	ASTM D790
	15.3 GPa	2220 ksi	ISO 178
Izod Impact, Notched	0.580 J/cm	1.09 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.76 J/cm	10.8 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	34.0 kJ/m ²	16.2 ft-lb/in ²	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	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	35.0 Åµm/m-Å°C	19.4 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	36.0 Åµm/m-Å°C	20.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	12.0 Åµm/m-Å°C	6.67 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	12.6 Åµm/m-Å°C	7.00 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	251 Å°C	484 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	250 Å°C	482 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	234 Å°C	453 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	232 Å°C	450 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+7 - 1.00e+9 ohm	1.00e+7 - 1.00e+9 ohm	ASTM D257

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