

SABIC Innovative Plastics LNP STAT-KON REF42 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* STAT-KON* REF42 is a compound based on Nylon 66 resin containing 20% Glass Fiber, 10% 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-REF42-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	ASTM D792
	1.35 g/cc	0.0488 lb/in ³	ISO 1183
Moisture Absorption	0.500 %	0.500 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0025 cm/cm	0.0025 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0030 cm/cm	0.0030 in/in	ASTM D955
	@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	
Linear Mold Shrinkage, Transverse	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	173 MPa	25100 psi	ASTM D638
	207 MPa	30000 psi	
Tensile Strength, Yield	173 MPa	25100 psi	ASTM D638
	207 MPa	30000 psi	
Elongation at Break	1.8 %	1.8 %	ASTM D638
	2.6 %	2.6 %	
Elongation at Yield	1.8 %	1.8 %	ASTM D638
	2.6 %	2.6 %	
Tensile Modulus	14.36 GPa	2083 ksi	1 mm/min; ISO 527

Mechanical Properties	15.16 GPa Metric	2199 ksi English	50 mm/min; ASTM D638 Comments
Flexural Strength	282 MPa	40900 psi	ASTM D790
	361 MPa	52400 psi	ISO 178
Flexural Modulus	11.03 GPa	1600 ksi	ASTM D790
	17.0 GPa	2470 ksi	ISO 178
Izod Impact, Notched	0.800 J/cm	1.50 ft-lb/in	ASTM D256
Izod Impact, Unnotched	8.54 J/cm	16.0 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	8.00 kJ/m ²	3.81 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	62.0 kJ/m ²	29.5 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	66.0 Åµm/m-Å°C	36.7 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	66.6 Åµm/m-Å°C	37.0 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	21.0 Åµm/m-Å°C	11.7 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	21.6 Åµm/m-Å°C	12.0 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)	201 Å°C	394 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	262 Å°C	504 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	249 Å°C	480 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	253 Å°C	487 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	1e+05 - 1.00e+10 ohm	1e+05 - 1.00e+10 ohm	ASTM D257

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