

SABIC Innovative Plastics LNP STAT-KON REL42 PA 66 (Asia Pacific)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* Stat-kon* REL42 is a compound based on Nylon 66 resin containing PTFE, Carbon Fiber. Added features of this material include:
Electrically Conductive, Internally Lubricated.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-REL42-PA-66-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.32 g/cc	0.0477 lb/in ³	ASTM D792
	1.32 g/cc	0.0477 lb/in ³	ISO 1183
Moisture Absorption	0.600 %	0.600 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0036 cm/cm	0.0036 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.011 - 0.013 cm/cm	0.011 - 0.013 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.012 cm/cm	0.012 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	132 MPa	19100 psi	ASTM D638
	133 MPa	19300 psi	
Tensile Strength, Yield	132 MPa	19100 psi	ASTM D638
	133 MPa	19300 psi	
Elongation at Break	2.2 %	2.2 %	ISO 527
	2.5 %	2.5 %	
Elongation at Yield	2.2 %	2.2 %	ISO 527
	2.5 %	2.5 %	
Tensile Modulus	8.27 GPa	1200 ksi	50 mm/min; ASTM D638

Mechanical Properties	8.69 GPa Metric	1260 ksi English	1 mm/min: ISO 527 Comments
Flexural Strength	186 MPa	27000 psi	ASTM D790
	186 MPa	27000 psi	ISO 178
Flexural Modulus	7.40 GPa	1070 ksi	ISO 178
	14.47 GPa	2099 ksi	ASTM D790
Izod Impact, Notched	0.420 J/cm	0.787 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.43 J/cm	8.30 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	29.0 kJ/m ²	13.8 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	8.00 J	5.90 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	79.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	43.9 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	79.2 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	44.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	36.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	20.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	36.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	20.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	258 $\text{Å}^\circ\text{C}$	496 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	260 $\text{Å}^\circ\text{C}$	500 $\text{Å}^\circ\text{F}$	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	242 $\text{Å}^\circ\text{C}$	468 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	247 $\text{Å}^\circ\text{C}$	477 $\text{Å}^\circ\text{F}$	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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

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