

SABIC Innovative Plastics LNP STAT-KON RFD03 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* STAT-KON* RFD03 is a compound based on Nylon 66 containing 15% Glass Fiber. Added feature of this material is: Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-RFD03-PA-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.35 g/cc	1.35 g/cc	ASTM D792
Density	1.34 g/cc	0.0484 lb/in ³	ASTM D792
Moisture Absorption	0.620 %	0.620 %	50% RH, 24 hrs; ASTM D570
	0.990 %	0.990 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0050 - 0.0080 cm/cm	0.0050 - 0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	91.0 MPa	13200 psi	Type I, 5 mm/min; ASTM D638
	92.0 MPa	13300 psi	5 mm/min; ISO 527
Tensile Strength, Yield	91.0 MPa	13200 psi	Type I, 5 mm/min; ASTM D638
	92.0 MPa	13300 psi	5 mm/min; ISO 527
Elongation at Break	1.2 %	1.2 %	5 mm/min; ISO 527
	1.3 %	1.3 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	1.2 %	1.2 %	5 mm/min; ISO 527
	1.3 %	1.3 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	8.01 GPa	1160 ksi	1 mm/min; ISO 527
	8.92 GPa	1290 ksi	50 mm/min; ASTM D638
Flexural Strength	134 MPa	19400 psi	ISO 178
	179 MPa	26000 psi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric	English	Comments
Flexural Yield Strength	177 MPa	25700 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	6.33 GPa	918 ksi	1.3 mm/min, 50 mm span; ASTM D790
	6.63 GPa	962 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.530 J/cm	0.993 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.91 J/cm	5.45 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)	18.0 kJ/m ²	8.57 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	5.00 J @Temperature 23.0 Â°C	3.69 ft-lb @Temperature 73.4 Â°F	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	3.00 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	1.67 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	8.00 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	4.44 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	258 Â°C	496 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	258 Â°C @Thickness 3.20 mm	496 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	245 Â°C	473 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	247 Â°C @Thickness 3.20 mm	477 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	1.0 - 3.0 ohm	1.0 - 3.0 ohm	ASTM D257

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