

SABIC Innovative Plastics LNP STAT-KON RX05489 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* STAT-KON* RX05489 is a compound based on Nylon 66 resin containing 10% Carbon Fiber, 20% Glass Fiber, 15% PTFE/Silicone.

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-RX05489-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in ³	ASTM D792
	1.41 g/cc	0.0509 lb/in ³	ISO 1183
Moisture Absorption	0.620 %	0.620 %	50% RH, 24 hrs; ASTM D570
	0.920 %	0.920 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Transverse	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	172 MPa	24900 psi	5 mm/min; ISO 527
	175 MPa	25400 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	172 MPa	24900 psi	5 mm/min; ISO 527
	175 MPa	25400 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.4 %	2.4 %	Type I, 5 mm/min; ASTM D638
	2.5 %	2.5 %	5 mm/min; ISO 527
Elongation at Yield	2.4 %	2.4 %	Type I, 5 mm/min; ASTM D638
	2.5 %	2.5 %	5 mm/min; ISO 527
Tensile Modulus	13.63 GPa	1977 ksi	1 mm/min; ISO 527
	14.94 GPa	2167 ksi	50 mm/min; ASTM D638
Flexural Strength	257 MPa	37300 psi	1.3 mm/min, 50 mm span; ASTM D790
	258 MPa	37400 psi	ISO 178
Flexural Yield Strength	256 MPa	37100 psi	1.3 mm/min, 50 mm span; ASTM D790

Flexural Modulus Mechanical Properties	12.04 GPa Metric	1746 ksi English	2 mm/min: ISO 178 Comments
	12.1 GPa	1750 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.850 J/cm	1.59 ft-lb/in	ASTM D256
Izod Impact, Unnotched	8.07 J/cm	15.1 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	7.00 kJ/m ²	3.33 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	48.0 kJ/m ²	22.8 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	8.00 J @Temperature 23.0 Â°C	5.90 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	255 Â°C	491 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)	238 Â°C	460 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	246 Â°C @Thickness 3.20 mm	475 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	2.0 - 4.0 ohm	2.0 - 4.0 ohm	ASTM D257

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