

SABIC Innovative Plastics LNP STAT-KON RE0069S PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* STAT-KON* RE0069S is a compound based on Nylon 66 resin containing 30% Carbon Fiber. Added features of this material include:
Electrically Conductive, Flame Retardant, Heat Stabilized.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-RE0069S-PA-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.49 g/cc	1.49 g/cc	ASTM D792
Density	1.49 g/cc	0.0538 lb/in ³	ISO 1183
	1.50 g/cc	0.0542 lb/in ³	ASTM D792
Moisture Absorption	0.400 %	0.400 %	50% RH, 24 hrs; ASTM D570
	0.560 %	0.560 %	23Â°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	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	0.0070 - 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	199 MPa	28900 psi	Type I, 50 mm/min; ASTM D638
	207 MPa	30000 psi	5 mm/min; ISO 527
Tensile Strength, Yield	199 MPa	28900 psi	Type I, 50 mm/min; ASTM D638
	207 MPa	30000 psi	5 mm/min; ISO 527
Elongation at Break	1.4 %	1.4 %	5 mm/min; ISO 527
	1.6 %	1.6 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	1.4 %	1.4 %	5 mm/min; ISO 527
	1.6 %	1.6 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	24.95 GPa	3619 ksi	1 mm/min; ISO 527
	26.96 GPa	3910 ksi	50 mm/min; ASTM D638
Flexural Strength	269 MPa	39000 psi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric 324 MPa	English 47000 psi	Comments ISO 178
Flexural Yield Strength	269 MPa	39000 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	18.59 GPa	2696 ksi	1.3 mm/min, 50 mm span; ASTM D790
	19.56 GPa	2837 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.760 J/cm	1.42 ft-lb/in	ASTM D256
Izod Impact, Unnotched	10.18 J/cm	19.07 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)	34.0 kJ/m ²	16.2 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
CTE, linear, Parallel 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
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)	255 Â°C	491 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	255 Â°C @Thickness 3.20 mm	491 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	242 Â°C	468 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	242 Â°C @Thickness 3.20 mm	468 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	1.0 - 4.0 ohm	1.0 - 4.0 ohm	ASTM D257

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