

## SABIC Innovative Plastics LNP STAT-KON RE007 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

### Material Notes:

LNP\* STAT-KON\* RE007 is a compound based on PA66 resin containing 35% Carbon Fiber. Added features include: Electrically Conductive.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-STAT-KON-RE007-PA-66.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-RE007-PA-66.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.33 g/cc	1.33 g/cc	ASTM D792
Density	1.322 g/cc	0.04776 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.590 %	0.590 %	50% RH, 24 hrs; ASTM D570
	0.920 %	0.920 %	23 <sup>o</sup> C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0090 - 0.011 cm/cm	0.0090 - 0.011 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	275 MPa	39900 psi	Type I, 5 mm/min; ASTM D638
	282 MPa	40900 psi	5 mm/min; ISO 527
Elongation at Break	1.7 %	1.7 %	Type I, 5 mm/min; ASTM D638
	1.7 %	1.7 %	5 mm/min; ISO 527
Tensile Modulus	29.92 GPa	4340 ksi	5 mm/min; ASTM D638
	30.41 GPa	4411 ksi	1 mm/min; ISO 527
Flexural Strength	387 MPa	56100 psi	1.3 mm/min, 50 mm span; ASTM D790
	391 MPa	56700 psi	ISO 178
Flexural Modulus	24.3 GPa	3520 ksi	1.3 mm/min, 50 mm span; ASTM D790
	24.61 GPa	3569 ksi	2 mm/min; ISO 178
Izod Impact, Notched	1.03 J/cm	1.93 ft-lb/in	ASTM D256
Izod Impact, Unnotched	10.3 J/cm	19.3 ft-lb/in	ASTM D4812

Mechanical Properties	Metric	English	Comments
Izod Impact, Unnotched (ISO)	62.0 kJ/m <sup>2</sup>	29.5 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	7.00 J @Temperature 23.0 Â°C	5.16 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	24.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	13.3 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	37.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	20.6 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	262 Â°C	504 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	263 Â°C @Thickness 3.20 mm	505 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	256 Â°C	493 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	257 Â°C @Thickness 3.20 mm	495 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	100 ohm - 1e+05	100 ohm - 1e+05	ASTM D257

## Contact Songhan Plastic Technology Co.,Ltd.

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