

## SABIC Innovative Plastics LNP STAT-KON REF42I PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

### Material Notes:

LNP\* STAT-KON\* REF42I is a compound based on Nylon 6/6 containing Proprietary Fillers. Added feature of this grade is: Electrically Conductive.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-STAT-KON-REF42I-PA-66.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-REF42I-PA-66.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	ASTM D792
Density	1.30 g/cc	0.0470 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.690 %	0.690 %	50% RH, 24 hrs; ASTM D570
	0.960 %	0.960 %	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	0.0080 - 0.010 cm/cm	0.0080 - 0.010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	176 MPa	25500 psi	5 mm/min; ISO 527
	197 MPa	28600 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	195 MPa	28300 psi	5 mm/min; ISO 527
Elongation at Break	2.6 %	2.6 %	Type I, 5 mm/min; ASTM D638
	2.7 %	2.7 %	5 mm/min; ISO 527
Elongation at Yield	2.6 %	2.6 %	5 mm/min; ISO 527
Tensile Modulus	13.87 GPa	2012 ksi	1 mm/min; ISO 527
	14.66 GPa	2126 ksi	50 mm/min; ASTM D638
Flexural Strength	264 MPa	38300 psi	ISO 178
	274 MPa	39700 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	277 MPa	40200 psi	1.3 mm/min, 50 mm span; ASTM D790

Flexural Modulus Mechanical Properties	11.5 GPa Metric	1670 ksi English	1.3 mm/min, 50 mm span; ASTM D790 Comments
Izod Impact, Notched	1.43 J/cm	2.68 ft-lb/in	ASTM D256
Izod Impact, Unnotched	9.98 J/cm	18.7 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	12.0 kJ/m <sup>2</sup>	5.71 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
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	22.0 J @Temperature 23.0 Â°C	16.2 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	4.00 J	2.95 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	16.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	8.89 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	94.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	52.2 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	260 Â°C	500 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	261 Â°C @Thickness 3.20 mm	502 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	247 Â°C	477 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	253 Â°C @Thickness 3.20 mm	487 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

## Contact Songhan Plastic Technology Co.,Ltd.

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