

## SABIC Innovative Plastics LNP STAT-KON DE004 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

### Material Notes:

LNP STAT-KON\* DE004 is a compound based on Polycarbonate resin containing 20% Carbon Fiber. Added features of this material include:  
Electrically Conductive.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-STAT-KON-DE004-PC.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-DE004-PC.php)

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 lb/in <sup>3</sup>	ASTM D792
	1.27 g/cc	0.0459 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	0.150 %	0.150 %	50% RH, 24 hrs; ASTM D570
	0.210 %	0.210 %	23 <sup>o</sup> C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.00040 - 0.00090 cm/cm	0.00040 - 0.00090 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.00040 - 0.0010 cm/cm	0.00040 - 0.0010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0030 - 0.0040 cm/cm	0.0030 - 0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0037 - 0.0045 cm/cm	0.0037 - 0.0045 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	114 MPa	16500 psi	ISO 527
	120 MPa	17400 psi	ASTM D638
Elongation at Break	1.6 %	1.6 %	ISO 527
	2.2 %	2.2 %	ASTM D638
Tensile Modulus	10.6 GPa	1540 ksi	1 mm/min; ISO 527
	10.89 GPa	1579 ksi	50 mm/min; ASTM D638
Flexural Strength	188 MPa	27300 psi	ISO 178
	196 MPa	28400 psi	ASTM D790

Mechanical Properties	Metric	English	Comments
Flexural Modulus	9.79 GPa	1420 ksi	ISO 178
Izod Impact, Notched	0.730 J/cm	1.37 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.90 J/cm	9.18 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	6.00 kJ/m <sup>2</sup>	2.86 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	33.0 kJ/m <sup>2</sup>	15.7 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	15.0 J	11.1 ft-lb	Instrumented Impact Energy @ peak; 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	13.3 Åµm/m-Å°C	7.39 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	14.0 Åµm/m-Å°C	7.78 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	42.4 Åµm/m-Å°C	23.6 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	42.5 Åµm/m-Å°C	23.6 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	149 Å°C	300 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	147 Å°C	297 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	144 Å°C	291 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	144 Å°C	291 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	10 - 10000 ohm	10 - 10000 ohm	ASTM D257

## **Contact Songhan Plastic Technology Co.,Ltd.**

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