

## SABIC Innovative Plastics LNP STAT-KON DEI13F PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

### Material Notes:

LNP\* STAT-KON\* DEI13F is a compound based on Polycarbonate resin containing 15% Carbon Fiber, 2% Silicone. Added features of this material include: Electrically Conductive, Superior Molding, Wear Resistant.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-STAT-KON-DEI13F-PC.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-DEI13F-PC.php)

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	0.100 %	0.100 %	50% RH, 24 hrs; ASTM D570
	0.200 %	0.200 %	23 <sup>o</sup> C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	116 MPa	16800 psi	ASTM D638
	116 MPa	16800 psi	ISO 527
Elongation at Break	1.8 %	1.8 %	ASTM D638
	1.8 %	1.8 %	ISO 527
Tensile Modulus	10.1 GPa	1460 ksi	1 mm/min; ISO 527
	10.4 GPa	1510 ksi	50 mm/min; ASTM D638
Flexural Strength	167 MPa	24200 psi	ISO 178
	172 MPa	24900 psi	ASTM D790
Flexural Modulus	7.50 GPa	1090 ksi	ASTM D790
	9.79 GPa	1420 ksi	ISO 178
Izod Impact, Notched	0.740 J/cm	1.39 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.83 J/cm	5.30 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	7.00 kJ/m <sup>2</sup>	3.33 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
	25.0 J	18.4 ft-lb	Instrumented Impact Energy @ peak;

Dart Drop, Total Energy Mechanical Properties	Metric	English	ASTM D3763 Comments
Impact Test	103 J	76.0 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.24	0.24	ASTM D3702 Modified
Coefficient of Friction, Static	0.24	0.24	ASTM D3702 Modified
K (wear) Factor	$691 \times 10^{-8} \text{ mm}^3/\text{N-M}$	$343 \times 10^{-10} \text{ in}^3\text{-min}/\text{ft-lb-hr}$	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	9.00 $\mu\text{m}/\text{m-}^\circ\text{C}$	5.00 $\mu\text{in}/\text{in-}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $^\circ\text{C}$	@Temperature -40.0 - 104 $^\circ\text{F}$	
	10.1 $\mu\text{m}/\text{m-}^\circ\text{C}$	5.61 $\mu\text{in}/\text{in-}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $^\circ\text{C}$	@Temperature -40.0 - 104 $^\circ\text{F}$	
CTE, linear, Transverse to Flow	72.0 $\mu\text{m}/\text{m-}^\circ\text{C}$	40.0 $\mu\text{in}/\text{in-}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $^\circ\text{C}$	@Temperature -40.0 - 104 $^\circ\text{F}$	
	73.5 $\mu\text{m}/\text{m-}^\circ\text{C}$	40.8 $\mu\text{in}/\text{in-}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $^\circ\text{C}$	@Temperature -40.0 - 104 $^\circ\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	142 $^\circ\text{C}$	288 $^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	142 $^\circ\text{C}$	288 $^\circ\text{F}$	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	100 ohm-cm	100 ohm-cm	ASTM D257
Surface Resistance	100 - 1.00e+6 ohm	100 - 1.00e+6 ohm	ASTM D257

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China