

## SABIC Innovative Plastics LNP STAT-KON DEP23FXC PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

### Material Notes:

LNP STAT-KON\* DEP23FXC is a compound based on Polycarbonate resin containing 15% Carbon Fiber, 10% PTFE/Silicone. Added features include: Electrically Conductive. Wear Resistant, Superior Molding.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-STAT-KON-DEP23FXC-PC.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-DEP23FXC-PC.php)

Physical Properties	Metric	English	Comments
Density	1.28 g/cc	0.0462 lb/in <sup>3</sup>	ISO 1183
	1.29 g/cc	0.0466 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.120 %	0.120 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0016 cm/cm	0.0016 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0020 cm/cm	0.0020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0027 cm/cm	0.0027 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0030 cm/cm	0.0030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	120 MPa	17400 psi	ASTM D638
	122 MPa	17700 psi	ISO 527
Elongation at Break	1.8 %	1.8 %	ISO 527
	2.0 %	2.0 %	ASTM D638
Tensile Modulus	10.2 GPa	1480 ksi	1 mm/min; ISO 527
	10.54 GPa	1529 ksi	50 mm/min; ASTM D638
Flexural Strength	186 MPa	27000 psi	ASTM D790
	186 MPa	27000 psi	ISO 178
Flexural Modulus	9.10 GPa	1320 ksi	ASTM D790

Mechanical Properties	10.3 GPa Metric	1490 ksi English	ISO 178 Comments
Izod Impact, Notched	0.640 J/cm	1.20 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.11 J/cm	7.70 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)	27.0 kJ/m <sup>2</sup>	12.8 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	16.0 J	11.8 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	36.5 Åµm/m-Å°C	20.3 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	36.5 Åµm/m-Å°C	20.3 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	33.3 Åµm/m-Å°C	18.5 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	33.3 Åµm/m-Å°C	18.5 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	141 Å°C	286 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf  unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	137 Å°C	279 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af  unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Flammability, UL94	HB	HB	UL 94 by SABIC-IP
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Electrical Properties	Metric	English	Comments
Surface Resistance	10 - 1.00e+6 ohm	10 - 1.00e+6 ohm	ASTM D257

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

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