

## SABIC Innovative Plastics LNP STAT-KON DX00887C PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

### Material Notes:

LNP STAT-KON\* DX00887C is a compound based on Polycarbonate resin containing Proprietary Filler(s). Added features of this material include: Clean Compounding System, Electrically Conductive.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-STAT-KON-DX00887C-PC.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-DX00887C-PC.php)

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.200 %	0.200 %	50% RH, 24 hrs; ASTM D570
	0.320 %	0.320 %	23 <sup>o</sup> C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0075 cm/cm	0.0075 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0080 cm/cm	0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0076 cm/cm	0.0076 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0080 cm/cm	0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	58.0 MPa	8410 psi	ASTM D638
	59.0 MPa	8560 psi	ISO 527
Tensile Strength, Yield	52.0 MPa	7540 psi	ISO 527
	58.0 MPa	8410 psi	ASTM D638
Elongation at Break	4.4 %	4.4 %	ISO 527
	10.2 %	10.2 %	ASTM D638
Elongation at Yield	4.7 %	4.7 %	ASTM D638
	9.0 %	9.0 %	ISO 527
Tensile Modulus	2.77 GPa	402 ksi	50 mm/min; ASTM D638

Mechanical Properties	2.84 GPa Metric	412 ksi English	1 mm/min: ISO 527 Comments
Flexural Strength	83.0 MPa	12000 psi	ISO 178
	101 MPa	14600 psi	ASTM D790
Flexural Modulus	2.81 GPa	408 ksi	ISO 178
	2.99 GPa	434 ksi	ASTM D790
Izod Impact, Notched	0.690 J/cm	1.29 ft-lb/in	ASTM D256
Izod Impact, Unnotched	16.23 J/cm	30.41 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)	123 kJ/m <sup>2</sup>	58.5 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	3.00 J	2.21 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	27.0 J	19.9 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	0.300 $\mu\text{m/m-}^\circ\text{C}$	0.167 $\mu\text{in/in-}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $^\circ\text{C}$	@Temperature -40.0 - 104 $^\circ\text{F}$	
	0.300 $\mu\text{m/m-}^\circ\text{C}$	0.167 $\mu\text{in/in-}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $^\circ\text{C}$	@Temperature -40.0 - 104 $^\circ\text{F}$	
CTE, linear, Transverse to Flow	57.7 $\mu\text{m/m-}^\circ\text{C}$	32.1 $\mu\text{in/in-}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $^\circ\text{C}$	@Temperature -40.0 - 104 $^\circ\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	131 $^\circ\text{C}$	268 $^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/af
	129 $^\circ\text{C}$	264 $^\circ\text{F}$	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

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

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

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