

## SABIC Innovative Plastics LNP STAT-KON DX09301C PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

### Material Notes:

Low Ionic, Low Outgassing, Low LPC and ESD safe Polycarbonate compound suitable for Semiconductor and Hard Disk Drive (HDD) application. Added features of this material include: Clean Compounding System.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-STAT-KON-DX09301C-PC-Asia-Pacific.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-DX09301C-PC-Asia-Pacific.php)

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in <sup>3</sup>	ISO 1183
	1.224 g/cc	0.04422 lb/in <sup>3</sup>	ASTM D792
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	51.0 MPa	7400 psi	Type I, 5 mm/min; ASTM D638
	54.0 MPa	7830 psi	5 mm/min; ISO 527
Tensile Strength, Yield	64.0 MPa	9280 psi	Type I, 5 mm/min; ASTM D638
	66.0 MPa	9570 psi	5 mm/min; ISO 527
Elongation at Break	12 %	12 %	5 mm/min; ISO 527
	15 %	15 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	3.1 %	3.1 %	5 mm/min; ISO 527
	5.4 %	5.4 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	2.60 GPa	377 ksi	1 mm/min; ISO 527
	2.67 GPa	387 ksi	50 mm/min; ASTM D638
Flexural Strength	101 MPa	14600 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	99.0 MPa	14400 psi	2 mm/min; ISO 178
Flexural Modulus	2.56 GPa	371 ksi	2 mm/min; ISO 178
			1.3 mm/min, 50 mm span; ASTM

Mechanical Properties	2.60 GPa Metric	377 ksi English	D790 Comments
Izod Impact, Notched	0.520 J/cm	0.974 ft-lb/in	ASTM D256
Izod Impact, Unnotched	21.6 J/cm	40.5 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	4.00 kJ/m <sup>2</sup>	1.90 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	200 kJ/m <sup>2</sup>	95.2 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	8.00 J	5.90 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	137 Â°C	279 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	138 Â°C	280 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1e+05 - 1.00e+8 ohm-cm	1e+05 - 1.00e+8 ohm-cm	ASTM D257
Surface Resistance	1e+05 - 1.00e+8 ohm	1e+05 - 1.00e+8 ohm	ASTM D257
Static Decay	0.10 sec	0.10 sec	5000V to <50V; FTMS101B

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