

## SABIC Innovative Plastics LNP STAT-KON Lexan\_JK2500 PC+ABS

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Carbon Fiber Filled , Polycarbonate (PC)

### Material Notes:

LNP\* Stat-kon\* Lexan\_JK2500 compound is a 20% carbon-fiber reinforced, nonhalogenated red phosphorous-free, high-flow FR PC+ABS for EMI/RFI shielding. SE of 21 dB at 1.5 mm.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-STAT-KON-LexanJK2500-PCABS.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-LexanJK2500-PCABS.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.31 g/cc	1.31 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.00060 - 0.0015 cm/cm	0.00060 - 0.0015 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Linear Mold Shrinkage, Transverse	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Melt Flow	25 g/10 min	25 g/10 min	ASTM D1238
	@Load 1.20 kg, Temperature 300 Â°C	@Load 2.65 lb, Temperature 572 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	63.0 MPa	9140 psi	Type I, 5 mm/min; ASTM D638
	63.0 MPa	9140 psi	5 mm/min; ISO 527
Tensile Strength, Yield	63.0 MPa	9140 psi	Type I, 5 mm/min; ASTM D638
	63.0 MPa	9140 psi	5 mm/min; ISO 527
Elongation at Break	2.3 %	2.3 %	5 mm/min; ISO 527
	2.4 %	2.4 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	2.2 %	2.2 %	5 mm/min; ISO 527
	2.3 %	2.3 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	11.03 GPa	1600 ksi	5 mm/min; ASTM D638
	11.13 GPa	1614 ksi	1 mm/min; ISO 527
Flexural Strength	110 MPa	16000 psi	2 mm/min; ISO 178
	112 MPa	16200 psi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	110 MPa Metric	16000 psi English	2 mm/min; ISO 178 Comments
Flexural Modulus	9.23 GPa	1340 ksi	1.3 mm/min, 50 mm span; ASTM D790
	10.09 GPa	1463 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.530 J/cm	0.993 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.24 J/cm	4.20 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	5.00 kJ/m <sup>2</sup>	2.38 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	15.0 kJ/m <sup>2</sup>	7.14 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	14.0 J @Temperature 23.0 Â°C	10.3 ft-lb @Temperature 73.4 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	12.6 Âµm/m-Â°C	7.00 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	80.0 Âµm/m-Â°C	44.4 Âµin/in-Â°F	ISO 11359-2
	@Temperature 23.0 - 80.0 Â°C	@Temperature 73.4 - 176 Â°F	
CTE, linear, Transverse to Flow	63.0 Âµm/m-Â°C	35.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	77.0 Âµm/m-Â°C	42.8 Âµin/in-Â°F	ISO 11359-2
	@Temperature 23.0 - 80.0 Â°C	@Temperature 73.4 - 176 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	98.0 Â°C	208 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	93.0 Â°C	199 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
	96.0 Â°C	205 Â°F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Vicat Softening Point	100 Â°C	212 Â°F	Rate B/120; ISO 306
	111 Â°C	232 Â°F	Rate B/50; ASTM D1525
UL RTI, Electrical	60.0 Â°C	140 Â°F	UL 746B

Thermal Properties with Impact	Metric °C	English	Comments
UL RTI, Mechanical without Impact	60.0 Å°C	140 Å°F	UL 746B
Flammability, UL94	V-0 @Thickness 0.990 mm	V-0 @Thickness 0.0390 in	UL 94

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.0 ohm-cm	2.0 ohm-cm	ASTM D257
Surface Resistance	10000 ohm	10000 ohm	ASTM D257

## Contact Songhan Plastic Technology Co.,Ltd.

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