

SABIC Innovative Plastics LNP STAT-KON Lexan_LCF1506 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Stat-kon* Lexan_LC1500N compound is a 15% carbon fiber, 6% PTFE reinforced polycarbonate.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-LexanLCF1506-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.31 g/cc	1.31 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.00050 - 0.0015 cm/cm	0.00050 - 0.0015 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Linear Mold Shrinkage, Transverse	0.0020 - 0.0030 cm/cm	0.0020 - 0.0030 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	111 MPa	16100 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	111 MPa	16100 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	4.1 %	4.1 %	Type I, 5 mm/min; ASTM D638
Flexural Strength	154 MPa	22300 psi	2.6 mm/min, 100 mm span; ASTM D790
	160 MPa	23200 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	8.41 GPa	1220 ksi	2.6 mm/min, 100 mm span; ASTM D790
	9.08 GPa	1320 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.530 J/cm	0.993 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.83 J/cm	5.30 ft-lb/in	ASTM D4812
Dart Drop, Total Energy	11.0 J	8.11 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Coefficient of Friction, Dynamic	0.19	0.19	steel; ASTM D1894
Coefficient of Friction, Static	0.41	0.41	steel; ASTM D1894
K (wear) Factor	2010 x 10 ⁻⁸ mm ³ /N-M	1000 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	PV=2000 psi-fpm vs Self; SABIC Method

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	141 Â°C	286 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
	144 Â°C	291 Â°F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Deflection Temperature at 1.8 MPa (264 psi)	137 Â°C	279 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
	139 Â°C	282 Â°F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
UL RTI, Electrical	80.0 Â°C	176 Â°F	UL 746B
UL RTI, Mechanical with Impact	80.0 Â°C	176 Â°F	UL 746B
UL RTI, Mechanical without Impact	80.0 Â°C	176 Â°F	UL 746B
Flammability, UL94	V-0	V-0	UL 94
	@Thickness 1.49 mm	@Thickness 0.0587 in	

Electrical Properties	Metric	English	Comments
Surface Resistance	10000 ohm	10000 ohm	ASTM D257
Static Decay	0.010 sec	0.010 sec	5000V to <50V; FTMS101B

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