

LNP™ STAT-KON™ Lexan_LCF1506

compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP STAT-KON LEXAN_LC1500N compound is a 15% carbon fiber, 6% PTFE reinforced polycarbonate.

General Information	
UL YellowCard	E121562-220955
Filler / Reinforcement	Carbon Fiber,15% Filler by Weight
Additive	PTFE Lubricant (6%)
Features	Lubricated
Processing Method	Injection Molding
Multi-Point Data	Elastic Modulus vs Temperature (ASTM D4065)
	Flexural DMA (ASTM D4065)
	Tensile Creep (ASTM D2990)
	Tensile Fatigue
	Tensile Stress vs. Strain (ASTM D638)
	Thermal Conductivity vs. Temperature (ASTM E1530)
	Viscosity vs. Shear Rate (ASTM D3835)

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.31	g/cm ³	ASTM D792
Molding Shrinkage			Internal Method
Flow : 3.20 mm	0.050 to 0.15	%	
Across Flow : 3.20 mm	0.20 to 0.30	%	
K (wear) Factor ¹	1000		Internal Method
Static Decay ²	10	msec	FTMS 101B
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ³			ASTM D638
Yield	111	MPa	
Break	111	MPa	
Tensile Elongation ⁴ (Break)	4.1	%	ASTM D638
Flexural Modulus			ASTM D790
50.0 mm Span ⁵	9080	MPa	
100 mm Span ⁶	8420	MPa	
Flexural Strength			ASTM D790
Break, 50.0 mm Span ⁷	161	MPa	
Break, 100 mm Span ⁸	154	MPa	

Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.19		
vs. Steel - Static	0.41		
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	53	J/m	ASTM D256
Unnotched Izod Impact (23°C)	280	J/m	ASTM D4812
Instrumented Dart Impact (23°C, Energy at Peak Load)	11.8	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm	142	°C	
0.45 MPa, Unannealed, 6.40 mm	144	°C	
1.8 MPa, Unannealed, 3.20 mm	138	°C	
1.8 MPa, Unannealed, 6.40 mm	139	°C	
RTI Elec	80.0	°C	UL 746
RTI Imp	80.0	°C	UL 746
RTI Str	80.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+4	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	3.0 to 4.0	hr	
Drying Time, Maximum	48	hr	
Suggested Max Moisture	0.020	%	
Suggested Shot Size	40 to 60	%	
Rear Temperature	277 to 293	°C	
Middle Temperature	282 to 304	°C	
Front Temperature	288 to 316	°C	
Nozzle Temperature	288 to 316	°C	
Processing (Melt) Temp	288 to 316	°C	
Mold Temperature	71.1 to 104	°C	
Back Pressure	0.345 to 0.689	MPa	
Screw Speed	40 to 70	rpm	
Vent Depth	0.025 to 0.076	mm	
NOTE			
1.	xE-10, PV=2000 psi-fpm vs Steel		
2.	5000V to <50V		
3.	Type I, 5.0 mm/min		
4.	Type I, 5.0 mm/min		
5.	1.3 mm/min		

6.	2.6 mm/min
7.	1.3 mm/min
8.	2.6 mm/min

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

