

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

Property

TYPICAL PROPERTIES ⁽¹⁾			
MECHANICAL	Value	Unit	Standard
Tensile Stress, yld, Type I, 5 mm/min	111	MPa	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	111	MPa	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	4.1	%	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	160	MPa	ASTM D 790
Flexural Stress, brk, 2.6 mm/min, 100 mm span	154	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	9080	MPa	ASTM D 790
Flexural Modulus, 2.6 mm/min, 100 mm span	8410	MPa	ASTM D 790
K-factor xE-10, PV=2000 psi-fpm vs Steel	1000	-	SABIC Method
Coefficient of Friction on steel, Static	0.41	-	ASTM D 1894
Coefficient of Friction on steel, Kinetic	0.19	-	ASTM D 1894
IMPACT	Value	Unit	Standard
Izod Impact, unnotched, 23°C	283	J/m	ASTM D 4812
Izod Impact, notched, 23°C	53	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	11	J	ASTM D 3763
THERMAL	Value	Unit	Standard
HDT, 0.45 MPa, 3.2 mm, unannealed	141	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	137	°C	ASTM D 648
HDT, 0.45 MPa, 6.4 mm, unannealed	144	°C	ASTM D 648
HDT, 1.82 MPa, 6.4 mm, unannealed	139	°C	ASTM D 648
Relative Temp Index, Elec	80	°C	UL 746B
Relative Temp Index, Mech w/impact	80	°C	UL 746B
Relative Temp Index, Mech w/o impact	80	°C	UL 746B
PHYSICAL	Value	Unit	Standard
Specific Gravity	1.31	-	ASTM D 792
Mold Shrinkage, flow, 3.2 mm	0.05 - 0.15	%	SABIC Method
Mold Shrinkage, xflow, 3.2 mm	0.2 - 0.3	%	SABIC Method
ELECTRICAL	Value	Unit	Standard
Surface Resistivity	1.E+04	Ohm	ASTM D 257
Static Decay, 5000V to <50V	0.01	< seconds	FTMS101B
FLAME CHARACTERISTICS	Value	Unit	Standard
UL Recognized, 94V-0 Flame Class Rating (3)	1.49	mm	UL 94

Source GMD, last updated:03/15/1999

Processing

Parameter	Value	Unit
Injection Molding		
Drying Temperature	120	°C
Drying Time	3 - 4	hrs
Drying Time (Cumulative)	48	hrs

Maximum Moisture Content	0.02	%
Melt Temperature	290 - 315	°C
Nozzle Temperature	290 - 315	°C
Front - Zone 3 Temperature	290 - 315	°C
Middle - Zone 2 Temperature	280 - 305	°C
Rear - Zone 1 Temperature	275 - 295	°C
Mold Temperature	70 - 105	°C
Back Pressure	0.3 - 0.7	MPa
Screw Speed	40 - 70	rpm
Shot to Cylinder Size	40 - 60	%
Vent Depth	0.025 - 0.076	mm

Source GMD, last updated:03/15/1999

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

PLEASE CHECK WITH YOUR [\(LOCAL SALES OFFICE\)](#) FOR AVAILABILITY IN YOUR REGION

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.

(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

(4) Internal measurements according to UL standards.

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