

SABIC Innovative Plastics LNP THERMOCOMP Lexan_LGN2000A PC (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Thermocomp* Lexan_LGN2000A compound is a 20% glass reinforced PC, high flow. UL rated V-0. Consumer Electronics applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-LexanLGN2000A-PC-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.35 g/cc	1.35 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0015 - 0.0025 cm/cm	0.0015 - 0.0025 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Linear Mold Shrinkage, Transverse	0.0025 - 0.0050 cm/cm	0.0025 - 0.0050 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Melt Flow	20.7 g/10 min	20.7 g/10 min	ASTM D1238
	@Load 1.20 kg, Temperature 300 °C	@Load 2.65 lb, Temperature 572 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	81.0 MPa	11700 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	4.9 %	4.9 %	Type I, 5 mm/min; ASTM D638
Flexural Strength	124 MPa	18000 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	5.03 GPa	730 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	4.00 J/cm	7.49 ft-lb/in	ASTM D4812
Dart Drop, Total Energy	14.0 J	10.3 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	23.4 µm/m-°C	13.0 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	

Thermal Properties	25.2 $\mu\text{m}/\text{m}\cdot\text{C}$ Metric	14.0 $\mu\text{in}/\text{in}\cdot\text{F}$ English	Comments ASTM E 831
	@Temperature -40.0 - 95.0 $^{\circ}\text{C}$	@Temperature -40.0 - 203 $^{\circ}\text{F}$	
CTE, linear, Transverse to Flow	48.6 $\mu\text{m}/\text{m}\cdot\text{C}$	27.0 $\mu\text{in}/\text{in}\cdot\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $^{\circ}\text{C}$	@Temperature -40.0 - 104 $^{\circ}\text{F}$	
	55.8 $\mu\text{m}/\text{m}\cdot\text{C}$	31.0 $\mu\text{in}/\text{in}\cdot\text{F}$	ASTM E 831
	@Temperature -40.0 - 95.0 $^{\circ}\text{C}$	@Temperature -40.0 - 203 $^{\circ}\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	141 $^{\circ}\text{C}$	286 $^{\circ}\text{F}$	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	135 $^{\circ}\text{C}$	275 $^{\circ}\text{F}$	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	143 $^{\circ}\text{C}$	289 $^{\circ}\text{F}$	Rate B/50; ASTM D1525
UL RTI, Electrical	120 $^{\circ}\text{C}$	248 $^{\circ}\text{F}$	UL 746B
UL RTI, Mechanical with Impact	120 $^{\circ}\text{C}$	248 $^{\circ}\text{F}$	UL 746B
UL RTI, Mechanical without Impact	130 $^{\circ}\text{C}$	266 $^{\circ}\text{F}$	UL 746B
Flammability, UL94	V-0	V-0	UL 94
	@Thickness 1.49 mm	@Thickness 0.0587 in	

Electrical Properties	Metric	English	Comments
Arc Resistance	120 - 180 sec	120 - 180 sec	Tungsten; ASTM D495
Comparative Tracking Index	175 - 250 V	175 - 250 V	UL 746A
Hot Wire Ignition, HWI	\geq 120 sec	\geq 120 sec	UL 746A
High Amp Arc Ignition, HAI	15 - 30 arcs	15 - 30 arcs	UL 746A
High Voltage Arc-Tracking Rate, HVTR	\geq 150 mm/min	\geq 5.91 in/min	UL 746A

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