



LNP™ THERMOCOMP™ Compound Lexan_LGN2000A

Europe-Africa-Middle East: COMMERCIAL

LNP THERMOCOMP LEXAN_LGN2000A compound is a 20% glass reinforced PC, high flow. UL rated V-0. Consumer Electronics applications.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	820	kgf/cm ²	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	4.9	%	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	1260	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	51300	kgf/cm ²	ASTM D 790
IMPACT			
Izod Impact, unnotched, 23°C	40	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	5	cm-kgf/cm	ASTM D 256
Instrumented Impact Total Energy, 23°C	145	cm-kgf	ASTM D 3763
THERMAL			
Vicat Softening Temp, Rate B/50	143	°C	ASTM D 1525
HDT, 0.45 MPa, 3.2 mm, unannealed	141	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	135	°C	ASTM D 648
CTE, -40°C to 40°C, flow	2.34E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	4.86E-05	1/°C	ASTM E 831
CTE, -40°C to 95°C, flow	2.52E-05	1/°C	ASTM E 831
CTE, -40°C to 95°C, xflow	5.58E-05	1/°C	ASTM E 831
Relative Temp Index, Elec	120	°C	UL 746B
Relative Temp Index, Mech w/impact	120	°C	UL 746B
Relative Temp Index, Mech w/o impact	130	°C	UL 746B
PHYSICAL			
Specific Gravity	1.35	-	ASTM D 792
Mold Shrinkage, flow, 3.2 mm (5)	0.15 - 0.25	%	SABIC Method
Mold Shrinkage, xflow, 3.2 mm (5)	0.25 - 0.5	%	SABIC Method
Melt Flow Rate, 300°C/1.2 kgf	20.7	g/10 min	ASTM D 1238



LNP™ THERMOCOMP™ Compound Lexan_LGN2000A

Europe-Africa-Middle East: COMMERCIAL

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
ELECTRICAL			
Arc Resistance, Tungsten {PLC}	5	PLC Code	ASTM D 495
Hot Wire Ignition {PLC}	0	PLC Code	UL 746A
High Voltage Arc Track Rate {PLC}	4	PLC Code	UL 746A
High Ampere Arc Ign, surface {PLC}	3	PLC Code	UL 746A
Comparative Tracking Index (UL) {PLC}	3	PLC Code	UL 746A
FLAME CHARACTERISTICS			
UL Recognized, 94V-0 Flame Class Rating (3)	1.49	mm	UL 94



LNP™ THERMOCOMP™ Compound Lexan_LGN2000A

Europe-Africa-Middle East: COMMERCIAL

PROCESSING PARAMETERS	TYPICAL 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	295 - 315	°C
Nozzle Temperature	290 - 310	°C
Front - Zone 3 Temperature	295 - 315	°C
Middle - Zone 2 Temperature	280 - 305	°C
Rear - Zone 1 Temperature	270 - 295	°C
Mold Temperature	70 - 95	°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