

LNP\* Thermocomp\* Compound Lexan\_JK2000 Americas: COMMERCIAL

LNP\* Thermocomp\* Lexan\_JK2000 compound is a 22% GR, ECO-compliant FR, PC+ABS for thinwall molding applications.

## Property

TYPICAL PROPERTIES <sup>(1)</sup>			
MECHANICAL	Value	Unit	Standard
Tensile Stress, yld, Type I, 5 mm/min	59	MPa	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	59	MPa	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	2.6	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	2.9	%	ASTM D 638
Tensile Modulus, 5 mm/min	7370	MPa	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	103	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	6890	MPa	ASTM D 790
Tensile Stress, yield, 5 mm/min	59	MPa	ISO 527
Tensile Stress, break, 5 mm/min	58	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	2.5	%	ISO 527
Tensile Strain, break, 5 mm/min	2.8	%	ISO 527
Tensile Modulus, 1 mm/min	7660	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	107	MPa	ISO 178
Flexural Stress, break, 2 mm/min	106	MPa	ISO 178
Flexural Modulus, 2 mm/min	7270	MPa	ISO 178
МРАСТ	Value	Unit	Standard
zod Impact, unnotched, 23°C	331	J/m	ASTM D 4812
zod Impact, notched, 23°C	37	J/m	ASTM D 256
nstrumented Impact Total Energy, 23°C	14	J	ASTM D 3763
zod Impact, unnotched 80*10*4 +23°C	23	kJ/m²	ISO 180/1U
zod Impact, notched 80*10*4 +23°C	4	kJ/m²	ISO 180/1A
THERMAL	Value	Unit	Standard
Vicat Softening Temp, Rate B/50	102	°C	ASTM D 1525
HDT, 0.45 MPa, 3.2 mm, unannealed	92	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	86	°C	ASTM D 648
HDT, 1.82 MPa, 6.4 mm, unannealed	89	°C	ASTM D 648
CTE, -40°C to 40°C, flow	2.88E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	6.12E-05	1/°C	ASTM E 831
CTE, 23°C to 80°C, flow	1.8E-05	1/°C	ISO 11359-2
CTE, 23°C to 80°C, xflow	7.6E-05	1/°C	ISO 11359-2
Vicat Softening Temp, Rate B/120	93	°C	ISO 306
Relative Temp Index, Elec	60	°C	UL 746B
Relative Temp Index, Mech w/impact	60	°C	UL 746B
Relative Temp Index, Mech w/o impact	60	°C	UL 746B
PHYSICAL	Value	Unit	Standard
Specific Gravity	1.39	-	ASTM D 792
Mold Shrinkage, flow, 3.2 mm	0.05 - 0.15	%	SABIC Method
Mold Shrinkage, xflow, 3.2 mm	0.15 - 0.35	%	SABIC Method
Melt Flow Rate, 260°C/2.16 kgf	22	g/10 min	ASTM D 1238

Melt Flow Rate, 300°C/1.2 kgf	36	g/10 min	ASTM D 1238	
FLAME CHARACTERISTICS	Value	Unit	Standard	
UL Recognized, 94V-0 Flame Class Rating (3)	0.99	mm	UL 94	
		Source GMD, last updated:10/29/2002		

## Processing

Parameter		
Injection Molding	Value	Unit
Drying Temperature	80 - 90	°C
Drying Time	3 - 4	hrs
Drying Time (Cumulative)	24	hrs
Melt Temperature	270 - 310	°C
Nozzle Temperature	270 - 300	°C
Front - Zone 3 Temperature	270 - 300	°C
Middle - Zone 2 Temperature	270 - 290	°C
Rear - Zone 1 Temperature	260 - 275	°C
Mold Temperature	50 - 95	°C
Back Pressure	0.3 - 0.7	MPa
Screw Speed	35 - 75	rpm
Shot to Cylinder Size	40 - 60	%
Vent Depth	0.038 - 0.076	mm

Source GMD, last updated:10/29/2002

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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