

## SABIC Innovative Plastics LNP THERMOCOMP Lexan\_LGN2000 PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-THERMOCOMP-LexanLGN2000-PC-Asia-Pacific.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-LexanLGN2000-PC-Asia-Pacific.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.35 g/cc	1.35 g/cc	ASTM D792
Water Absorption	0.16 %	0.16 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0015 - 0.0035 cm/cm	0.0015 - 0.0035 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	91	91	ASTM D785
Tensile Strength at Break	107 MPa	15500 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	86.0 MPa	12500 psi	SABIC - Japan Method
Elongation at Break	4.0 - 6.0 %	4.0 - 6.0 %	SABIC - Japan Method
	5.0 %	5.0 %	
Flexural Strength	127 MPa	18400 psi	1.3 mm/min, 50 mm span; ASTM D790
	147 MPa	21300 psi	
Flexural Modulus	5.29 GPa	767 ksi	ASTM D790
	5.51 GPa	799 ksi	
Izod Impact, Notched	0.960 J/cm	1.80 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	29.0 - 53.0 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$	16.1 - 29.4 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$	TMA
	@Temperature -30.0 - 30.0 $\text{Å}^\circ\text{C}$	@Temperature -22.0 - 86.0 $\text{Å}^\circ\text{F}$	
CTE, linear, Parallel to Flow	4.10 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$	2.28 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
	@Temperature -30.0 -	@Temperature -22.0 -	

Thermal Properties	30.0 Å°C Metric	86.0 Å°F English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	148 Å°C	298 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
	148 Å°C	298 Å°F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Deflection Temperature at 1.8 MPa (264 psi)	145 Å°C	293 Å°F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Vicat Softening Point	150 Å°C	302 Å°F	Rate B/50; ASTM D1525
Flammability, UL94	V-2	V-2	UL 94
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	V-0	V-0	UL 94
	@Thickness 1.52 mm	@Thickness 0.0598 in	
Oxygen Index	32 %	32 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+17 ohm-cm	1.00e+17 ohm-cm	ASTM D257
Surface Resistance	1.00e+16 ohm	1.00e+16 ohm	ASTM D257
Dielectric Constant	3.2	3.2	ASTM D150
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	
Dielectric Strength	19.2 kV/mm	488 kV/in	in oil; ASTM D149
	@Thickness 3.20 mm	@Thickness 0.126 in	
Dissipation Factor	0.00090	0.00090	ASTM D150
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	

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