

## SABIC Innovative Plastics Lexan® LUX1814N PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-Lexan-LUX1814N-PC.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Lexan-LUX1814N-PC.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Density	1.20 g/cc	0.0434 lb/in <sup>3</sup>	ASTM D792
Linear Mold Shrinkage, Flow	0.0060 - 0.0090 cm/cm @Thickness 3.20 mm	0.0060 - 0.0090 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	3.2 g/10 min @Load 1.20 kg, Temperature 300 °C	3.2 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	60.0 MPa	8700 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	62.0 MPa	8990 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	91 %	91 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	7.0 %	7.0 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	2.30 GPa	334 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	98.0 MPa	14200 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.37 GPa	344 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	8.26 J/cm	15.5 ft-lb/in	ASTM D256
	1.12 J/cm @Temperature -30.0 °C	2.10 ft-lb/in @Temperature -22.0 °F	ASTM D256
Dart Drop, Total Energy	72.0 J	53.1 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	66.0 µm/m-°C @Temperature -40.0 - 40.0 °C	36.7 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831

Thermal Properties	Metric @Temperature -40.0 - 40.0 °C	English @Temperature -40.0 - 104 °F	Comments
CTE, linear, Transverse to Flow	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	141 °C @Thickness 6.40 mm	286 °F @Thickness 0.252 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	127 °C @Thickness 6.40 mm	261 °F @Thickness 0.252 in	unannealed; ASTM D648
Vicat Softening Point	145 °C	293 °F	Rate B/50; ASTM D1525

## Contact Songhan Plastic Technology Co.,Ltd.

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