

SABIC Innovative Plastics Lexan® LGN1500 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-Lexan-LGN1500-PC-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.31 g/cc	1.31 g/cc	ASTM D792
Water Absorption	0.14 % @Time 86400 sec	0.14 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0025 - 0.0035 cm/cm @Thickness 3.20 mm	0.0025 - 0.0035 in/in @Thickness 0.126 in	SABIC Method

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	88	88	ASTM D785
Tensile Strength, Yield	81.0 MPa	11700 psi	SABIC - Japan Method
Elongation at Break	4.0 - 6.0 %	4.0 - 6.0 %	SABIC - Japan Method
Flexural Strength	134 MPa	19400 psi	ASTM D790
Flexural Modulus	4.41 GPa	640 ksi	ASTM D790
Izod Impact, Notched	0.780 J/cm	1.46 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	35.0 - 53.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature -30.0 - 30.0 °C	19.4 - 29.4 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature -22.0 - 86.0 °F	TMA
Deflection Temperature at 0.46 MPa (66 psi)	146 °C @Thickness 3.20 mm	295 °F @Thickness 0.126 in	unannealed; ASTM D648
Flammability, UL94	V-2 @Thickness 0.750 mm	V-2 @Thickness 0.0295 in	UL 94
	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	UL 94

Electrical Properties	Metric	English	Comments
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Electrical Properties	1.00e+16 ohm Metric	1.00e+16 ohm English	ASTM D257 Comments
Dielectric Constant	3.2 @Frequency 50.0 - 60.0 Hz	3.2 @Frequency 50.0 - 60.0 Hz	ASTM D150

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