

SABIC Innovative Plastics Lexan® LCG2007 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-LCG2007-PC-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.33 g/cc	1.33 g/cc	ASTM D792
Water Absorption	0.12 % @Time 86400 sec	0.12 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0015 - 0.0025 cm/cm @Thickness 3.20 mm	0.0015 - 0.0025 in/in @Thickness 0.126 in	SABIC Method

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	94	94	ASTM D785
Tensile Strength, Yield	132 MPa	19100 psi	SABIC - Japan Method
Elongation at Break	5.0 - 7.0 %	5.0 - 7.0 %	SABIC - Japan Method
Flexural Strength	217 MPa	31500 psi	ASTM D790
Flexural Modulus	14.9 GPa	2160 ksi	ASTM D790
Izod Impact, Notched	1.07 J/cm	2.00 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	20.0 - 45.0 $\mu\text{m}/\text{m}^{\circ}\text{C}$ @Temperature -30.0 - 30.0 $^{\circ}\text{C}$	11.1 - 25.0 $\mu\text{in}/\text{in}^{\circ}\text{F}$ @Temperature -22.0 - 86.0 $^{\circ}\text{F}$	TMA
Deflection Temperature at 0.46 MPa (66 psi)	138 $^{\circ}\text{C}$ @Thickness 3.20 mm	280 $^{\circ}\text{F}$ @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	100 ohm - 1e+05	100 ohm - 1e+05	ASTM D257

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