

SABIC Innovative Plastics Lexan® LC120 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-LC120-PC-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.28 g/cc	1.28 g/cc	ASTM D792
Water Absorption	0.12 % @Time 86400 sec	0.12 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm @Thickness 3.20 mm	0.0010 - 0.0030 in/in @Thickness 0.126 in	SABIC Method

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	92	92	ASTM D785
Tensile Strength, Yield	191 MPa	27700 psi	SABIC - Japan Method
Elongation at Break	3.0 - 5.0 %	3.0 - 5.0 %	SABIC - Japan Method
Flexural Strength	234 MPa	33900 psi	ASTM D790
Flexural Modulus	13.23 GPa	1919 ksi	ASTM D790
Izod Impact, Notched	1.07 J/cm	2.00 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	22.0 - 47.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ @Temperature -30.0 - 30.0 $^\circ\text{C}$	12.2 - 26.1 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ @Temperature -22.0 - 86.0 $^\circ\text{F}$	TMA
Deflection Temperature at 0.46 MPa (66 psi)	141 $^\circ\text{C}$ @Thickness 3.20 mm	286 $^\circ\text{F}$ @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	100 - 10000 ohm	100 - 10000 ohm	ASTM D257

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