

SABIC Innovative Plastics Lexan® LF1520 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-LF1520-PC-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.46 g/cc	1.46 g/cc	ASTM D792
Water Absorption	0.16 % @Time 86400 sec	0.16 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0020 - 0.0030 cm/cm @Thickness 3.20 mm	0.0020 - 0.0030 in/in @Thickness 0.126 in	SABIC Method

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	122	122	ASTM D785
Tensile Strength, Yield	112 MPa	16200 psi	SABIC - Japan Method
Elongation at Break	4.0 - 6.0 %	4.0 - 6.0 %	SABIC - Japan Method
Flexural Strength	127 MPa	18400 psi	ASTM D790
Flexural Modulus	5.88 GPa	853 ksi	ASTM D790
Izod Impact, Notched	1.47 J/cm	2.75 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	30.0 - 52.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ @Temperature -30.0 - 30.0 $^\circ\text{C}$	16.7 - 28.9 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ @Temperature -22.0 - 86.0 $^\circ\text{F}$	TMA
Deflection Temperature at 0.46 MPa (66 psi)	148 $^\circ\text{C}$ @Thickness 3.20 mm	298 $^\circ\text{F}$ @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+16 ohm	1.00e+16 ohm	ASTM D257

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