

SABIC Innovative Plastics Lexan® 3412 PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

This data was supplied by SABIC-IP for the Asia Pacific region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Lexan-3412-PC-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.34 g/cc	1.34 g/cc	ASTM D 792
Water Absorption	0.16 % @Time 86400 sec	0.16 % @Time 24.0 hour	ASTM D 570
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
Tensile Strength, Yield	107 MPa	15500 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 D 790
Flexural Modulus	4.86 GPa	705 ksi	ASTM D 790
Izod Impact, Notched	0.930 J/cm @Temperature 23.0 °C	1.74 ft-lb/in @Temperature 73.4 °F	ASTM D 256

Thermal Properties	Metric	English	Comments
CTE, linear	29.0 - 53.0 µm/m-°C @Temperature -30.0 - 30.0 °C	16.1 - 29.4 µin/in-°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 D 648
Flammability, UL94	V-1 @Thickness 1.50 mm	V-1 @Thickness 0.0591 in	UL 94
	V-0 @Thickness 3.00 mm	V-0 @Thickness 0.118 in	UL 94

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