

Description

Lexan* 9030FR sheet is a transparent polycarbonate sheet specially developed to satisfy the flammability requirements of the building and construction market. In addition to good flammability performance, it offers excellent impact resistance, good stiffness and strength, and ease of processing, making it suitable for a wide variety of applications in the building and construction industries.

Lexan 9030FR sheets provide: high impact resistance, excellent flammability performance, high optical quality, excellent formability.

Typical Property Values ♦

Property	Test Method	Unit	Value
Physical			
Density	ISO 1183	g/cm ³	1.23
Water absorption, 23 °C / saturation	ISO 62	%	10
Mechanical			
Tensile stress at yield 50 mm/min	ISO 527	MPa	60
Tensile modulus 1 mm/min	ISO 527	MPa	2300
Tensile elongation, yield		%	6
break		%	80
Flexural stress at yield 2 mm/min	ISO 178	MPa	90
Flexural modulus, 2 mm/min	ISO 178	MPa	2300
Impact			
Izod impact, unnotched 23°C	ISO 180/4U	kJ/m ²	NB
Izod impact, unnotched -30°C	ISO 180/4U	kJ/m ²	NB
Izod impact, notched 23°C	ISO 180/4A	kJ/m ²	10
Izod impact, notched -30°C	ISO 180/4A	kJ/m ²	10
Gardner impact, 20°C	SABIC Method	J	>40
-40°C		J	>40
Thermal			
Vicat Softening Temperature, rate B/120	ISO 306	°C	145
HDT/Ae, 1.8 MPa edgew. 120*1*04/sp=100	ISO 75 /Be	°C	127
Thermal conductivity	ISO 8302	W/m°C	0.2
Coeff.of Lin.Thermal Expansion	ASTM D696	1/°C	7.10 ⁻⁵
Ball pressure test 125 ±2°C	IEC 335-1	-	Passes
Mold shrinkage	SABIC Method	%	0.5-0.7
Optical			
Light transmission, 3 mm	ASTM-D1003	%	89

- ♦ These property values have been derived from Lexan*resin data for the material used to produce this sheet product. Variation within normal tolerances are possible for various colors. These typical values are not intended for specification purposes. If minimum certifiable properties are required please contact your local SABIC Innovative Plastics, Specialty Film & Sheet representative. All values are measured at least after 48 hours storage at 23°C/50% relative humidity. All properties are measured on injection molded samples. All samples are prepared according ISO 294.

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Fire performance

French Norms NF P92-505 M2 Classification are available for Lexan* 9030FR transparent grades with thickness 2, 3, 4, 5, 6, 8mm and in opal white as 6mm 9030FR grade.

Product Availability

Product code: Lexan 9030FR
Standard size: 1250 x 2050mm, 2050 x 3000mm
Gauges: 2.0 to 8.0 mm
Textures: Polished/Polished
Colors: 112, WH6D060X
Other colors/sizes are available by special request.



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