

Description

Lexan* 9030FA sheet is a transparent sheet with polished surface and is formulated and manufactured to comply with European food contact Directive 2002/72/EC, as amended. This grade does not contain hazardous substances regulated by RoHS Directive 2002/95/EC and has no surface treatment for either UV protected or mar-resistance. Lexan 9030FA sheet combines high impact and temperature resistance with optical clarity and can be excellent candidate for chocolate molds and food packaging. Lexan 9030FA sheet can be cut, sawn, drill, milling and bent easily using standard workshop equipment without the risk of cracking and breakage. Lexan 9030FA sheet can be easily thermoformed into complex parts like dishwasher cleanable chocolate molds and will retain its properties.

Typical Property Values ♦

Property	Value	Unit	Test Method
Physical			
Density	1.2	g/cm ³	ISO 1183
Water absorption, 24 hours	10	mg.	ISO 62
Water absorption, saturation /23°C	0.35	%	ISO 62
Mould shrinkage	0.6-0.8	%	ASTM-D955
Poison's ratio	0.38	-	ASTM-D638
Mechanical			
Tensile stress at yield 50 mm/min	60	MPa	ISO 527
Tensile stress at break 50 mm/min	70	MPa	ISO 527
Tensile strain at yield 50 mm/min	6	%	ISO 527
Tensile strain at break 50 mm/min	120	%	ISO 527
Tensile modulus 1 mm/min	2350	MPa	ISO 527
Flexural stress at yield 2 mm/min	90	MPa	ISO 178
Flexural modulus 2 mm/min	2300	MPa	ISO 178
Hardness H358/30	95	MPa	ISO 2039/1
Impact			
Charpy impact, notched	35	kJ/m ²	ISO 179/2C
Izod impact, unnotched 23°C	NB	kJ/m ²	ISO 180/1U
Izod impact, unnotched -30°C	NB	kJ/m ²	ISO 180/1U
Izod impact, notched 23°C	65	kJ/m ²	ISO 180/1A
Izod impact, notched -30°C	10	kJ/m ²	ISO 180/1A
Thermal			
Vicat B/120	145	°C	ISO 306
HDT/Ae, 1.8 MPa edgew. 120*1*04/s=100	127	°C	ISO 75
Thermal conductivity	0.2	W/m.°C	DIN52612
Coef. of Lin. Therm. Exp. extr. 23-80°C	7.00E-05	1/°C	DIN53752
Ball pressure test 125 ±2°C	Passes	-	IEC335-1
Thermal Index. Electrical Properties	100	°C	UL746B
Thermal Index. Mech. prop. with impact	100	°C	UL746B
Thermal Index. Mech. prop. w/o impact	100	°C	UL746B
Flammability			
Oxygen Index †)	25	%	ISO 4589
Glow Wire Test, 850°C, passes at	1	mm	IEC695-2-1
Glow Wire Test, 960°C, passes at	3.2	mm	IEC695-2-1
Optical			
Light transmission ^{‡)} 3 mm	89	%	ASTM-D1003

♦ These property values have been derived from Lexan* resin data for the material used to produce this sheet product. These typical values are not intended for specification purposes. If minimum certifiable properties are required please contact your local SABIC Innovative Plastics 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 to ISO 294.

†) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

‡) Light transmission value may vary by + or - 5%.

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Chemical Resistance

Taking into account the complexity of chemical compatibility, all chemicals which come into contact with Lexan 9030FA sheet should be tested. Consult our technical service center for more technical info.

Product Availability

Product code:	Lexan 9030FA
Standard gauge : #	1, 1.5, 2, 2.5, 3 mm
Standard width:#	1250 mm
Standard length: #	2050 mm
Standard color: #	11204
Masking, top: #	PE coex translucent white 50 mu
Masking, bottom	PE coex translucent white 50 mu

Other gauges and other dimensions upon request and are subject to minimum order quantities.



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