

LEXAN™ F2900 SHEET

PRODUCT DATASHEET

DESCRIPTION

LEXAN™ F2900 sheet is a flame retardant transparent polycarbonate sheet. In addition to good flammability performance, it offers excellent impact resistance, good stiffness, strength, and ease of processing, making it suitable for a wide variety of applications in the electrical and welding cabin sector.

TYPICAL PROPERTY VALUES

PROPERTY	TEST METHOD	UNITS	VALUE
PHYSICAL			
Density	ISO 1183	g/cm ³	1.23
Water absorption, 23 °C / saturation	ISO 62	%	0.35
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
ELECTRICAL			
Dielectric Strength, in oil, 3.2mm	IEC 60243-1	Kv/mm	18
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 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

Vertical burn (50W), UL94V, V0 (3mm)

PRODUCT AVAILABILITY

PRODUCT CODE : LEXAN™ F2900 Sheet
STANDARD SIZE : 1250 mm x 2050 mm and 2050 mm x 3050 mm
GAUGES : 2.0 mm to 6.0 mm
TEXTURES : POLISHED / POLISHED
COLOURS : 112 (clear)

OTHER COLOURS/SIZES ARE AVAILABLE BY SPECIAL REQUEST.

CONTACT US:

Middle East and Africa
SABIC Global Headquarters
PO Box 5101
Riyadh 11422
Saudi Arabia
T +966 (0) 1 225 8000
F +966 (0) 1 225 9000
E info@sabic.com

Email
sfs.info@sabic.com

Americas
SABIC
Functional Forms
1 Plastics Avenue
Pittsfield, MA 01201
USA
Toll-free 1 800 323 3783
T 1 413 448 6655
F (888) 443 2033
E spinside.sales@sabic.com

Europe
SABIC
Functional Forms
Plasticslaan 1
4612 PX
Bergen op Zoom
The Netherlands
T +31 (0)164 293678
F +31 (0)164 293272
E sfs.info@sabic.com

Asia Pacific
SABIC
Functional Forms
2550 Xiupu Road
Pudong
201319 Shanghai
China
T +86 21 2037 8188
F +86 21 2037 8288
E sfs.info@sabic.com

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