

LEXAN™ F2104 SHEET

PRODUCT DATASHEET

DESCRIPTION

LEXAN™ F2104 sheet is an extruded flame-retardant polycarbonate sheet material complying with the Federal Aviation Regulations 25.853 (a),1,(i) and (a),1,(ii) (formerly A&B) for vertical burn. Typically used for aircraft interiors, LEXAN F2104 sheet is available in clear, transparent tints and opaque colors, ranging in thicknesses from .125" – .500". LEXAN F2104 sheet may be thermoformed, pressure formed, twin-sheet formed or used in flat or cold formed applications.

TYPICAL PROPERTY VALUES ◆

Property	ASTM Test Method	Units (USCS)	Value
Physical			
Specific Gravity	ASTM D792	-	1.2
Water Absorption, Equilibrium, 24 Hrs	ASTM D570	%	0.17
Light Transmission (avg.), .125" thickness	ASTM D1003	%	85
Mechanical			
Tensile Strength	ASTM D638	psi	
@ Yield			9,500
@Ultimate			9,000
Elongation	ASTM D638	%	95
Tensile Modulus	ASTM D638	psi	230,000
Flexural Strength	ASTM D790	psi	15,000
Flexural Modulus	ASTM D790	psi	340,000
Compressive Strength	ASTM D695	psi	12,500
Dynatup Impact Strength, 1/2" dia. dart, (gauge dependant) ^{##} , @ 73°F	ASTM D3783	ft-lbs	50
Gardner Impact Strength, round tup (gauge dependent), ## @ 73°F	ASTM D3029	in-lbs	>320
Izod Impact Strength, (gauge dependant) ^{##} Notched @ 73°F	ASTM D256A	ft-lbs/in	16.0
Unnotched @ 73°F			NB
Thermal			
Coefficient of Thermal Expansion	ASTM D696	in/in/°F	3.75 x 10 ⁻⁵
Heat Deflection Temperature @ 264 psi	ASTM D648	°F	280
Flammability			
UL Flammability [#]	UL 94	-	V-0 (118 mils and above in clear, black & grey)
FAA Flammability @ 40 to 125 mils	FAR 25.853	-	Passes A&B
ATS 1000 @ 125 – 500 mils	-	-	Pass

◆ 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.

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

Reported values based on .125" gauge thickness.

™ Trademarks of SABIC.

CODE COMPLIANCE

Underwriters Laboratories according to UL Standard 972.

LEXAN F210x Sheet is listed as a Burglary-Resisting Glazing Material

UL File Number: E121562



CONTACT US:

SABIC CORPORATE HQ
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

Americas
SABIC
Functional Forms
2500 City West Boulevard
Suite 100
Houston, TX 77042
USA
Toll-free (800) 323 3783
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 ff.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 ff.info@sabic.com

DISCLAIMER: THE MATERIALS, PRODUCTS AND SERVICES OF SAUDI BASIC INDUSTRIES CORPORATION (SABIC) OR ITS SUBSIDIARIES OR AFFILIATES (“SELLER”) ARE SOLD SUBJECT TO SELLER’S STANDARD CONDITIONS OF SALE, WHICH ARE AVAILABLE UPON REQUEST. INFORMATION AND RECOMMENDATIONS CONTAINED IN THIS DOCUMENT ARE GIVEN IN GOOD FAITH. HOWEVER, SELLER MAKES NO EXPRESS OR IMPLIED REPRESENTATION, WARRANTY OR GUARANTEE (i) THAT ANY RESULTS DESCRIBED IN THIS DOCUMENT WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (ii) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN OR APPLICATION INCORPORATING SELLER’S MATERIALS, PRODUCTS, SERVICES OR RECOMMENDATIONS. UNLESS OTHERWISE PROVIDED IN SELLER’S STANDARD CONDITIONS OF SALE, SELLER SHALL NOT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS MATERIALS, PRODUCTS, SERVICES OR RECOMMENDATIONS DESCRIBED IN THIS DOCUMENT. Each user is responsible for making its own determination as to the suitability of Seller’s materials, products, services or recommendations for the user’s particular use through appropriate end-use and other testing and analysis. Nothing in any document or oral statement shall be deemed to alter or waive any provision of Seller’s Standard Conditions of Sale or this Disclaimer, unless it is specifically agreed to in a writing signed by Seller. Statements by Seller concerning a possible use of any material, product, service or design do not, are not intended to, and should not be construed to grant any license under any patent or other intellectual property right of Seller or as a recommendation for the use of any material, product, service or design in a manner that infringes any patent or other intellectual property right. SABIC and brands marked with ™ are trademarks of SABIC or its subsidiaries or affiliates, unless otherwise noted.

© 2020 Saudi Basic Industries Corporation (SABIC). All Rights Reserved.

Any brands, products or services of other companies referenced in this document are the trademarks, service marks and/or trade names of their respective holders.

www.sabic.com/sfs