

## Description

Lexan F2100 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 F2100 sheet is available in clear, transparent tints and opaque colors, ranging in thicknesses from .125" – .500". Lexan F2100 sheet may be thermoformed, pressure formed, twin-sheet formed or used in flat or cold formed applications.

## Typical Property Values ♦

Property	Test Method	Unit	Value
<b>Physical</b>			
Specific Gravity	ASTM D792	–	1.2
Water Absorption, Equilibrium, 24 Hrs	ASTM D570	%	0.17
Light Transmission (avg.), .125" thickness	ASTM D1003	%	85
<b>Mechanical</b>			
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
<b>Thermal</b>			
Coefficient of Thermal Expansion	ASTM D696	in/in/°F	3.75 x 10 <sup>-5</sup>
Heat Deflection Temperature @ 264 psi	ASTM D648	°F	280
<b>Flammability</b>			
UL Flammability#	UL 94	–	V-0 (118 mils and above in clear, black & grey)
FAA Flammability @ 40 to 125 mills	FAR 25.853	–	Passes A&B
ATS 1000 @ 125 – 500 mills	–	–	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.

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**Lexan\*** Tough  
Polycarbonate Sheet Virtually  
Unbreakable

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