POLYVANTIS

PRODUCT DATASHEET

LEXAN™ F2100 SHEET

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	Units	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)##	ASTM D256A	ft-lbs/in	
Notched @ 73°F			16.0
Unnotched @ 73°F			NB
Thermal			
Coefficient of Thermal Expansion	ASTM D696	in/in/°F	3.75×10^{-5}
Heat Deflection Temperature @ 264 psi	ASTM D648	°F	280
Flammability			
UL Flammability#	UL 94	-	V-0 (118 mils and above
			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 POLYVANTIS 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.

CODE COMPLIANCE

Underwriters Laboratories according to UL Standard 972.

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

UL File Number: E539157

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LEXAN™ POLYCARBONATE FILM & SHEET Tough, Virtually Unbreakable

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