

## Description

Lexan MR AC flame-retardant sheet is a two-side, hard-coated polycarbonate material offering excellent impact resistance, optical clarity and the state-of-the-art in abrasion and UV resistance. Lexan MR AC sheet is specifically designed for aircraft window dust covers, acoustical panels, visors, diffusers, and any other similar application not requiring forming.

## Typical Property Values ♦

Property	Test Method	Unit	Value
<b>Physical</b>			
Specific Gravity (color dependent)	ASTM D792	-	1.20 – 1.27
Water Absorption, Equilibrium, 24 hrs.	ASTM D570	%	0.2
Sound Transmission (STC Ratings 36"x84") @ .125"	ASTM E9070	-	25
@ .187"			29
Abrasion Resistance, CS10F wheels, 500 gram load, 100 cycles	ASTM D1044-76	%	1-4
<b>Mechanical</b>			
Tensile Strength @ Yield			10,000
Ultimate			9,500
Tensile Modulus	ASTM D638	psi	245,000
Tensile Elongation, Ultimate	ASTM D638	%	>80
Flexural Strength (Gauge Dependent)#	ASTM D790	psi	14,000
Flexural Modulus (Gauge Dependent)#	ASTM D790	psi	350,000
Dynatup Impact Strength, 1/2" dia. dart (Gauge Dependent)# @ 73°F	ASTM D3763	ft-lbs	50
Izod Impact Strength (Gauge Dependent)# Notched @ 73°F	ASTM D256A	ft-lbs/in	2.4
Unnotched @ 73°F			NB
Gardner Impact Strength, round tup (Gauge Dependent)# @ 73°F	ASTM D3029	in-lbs	>320
<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	270
<b>Flammability</b>			
FAA Flammability @ .060" to .500"	FAR 25.853F1AI/ BSS 7230	-	Pass

- ♦ These typical values are not intended for specification purposes. If minimum certifiable properties are required please contact your local SABIC Innovative Plastics' representative.
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- # Reported values based on 0.118" gauge thickness



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