

# LEXAN™ FMR604 SHEET

## PRODUCT DATASHEET

### DESCRIPTION

LEXAN FMR604 coated sheet is a two-side, hard-coated polycarbonate material offering excellent impact resistance, optical clarity, and abrasion resistance. LEXAN FMR604 may be cold-formed or heat-drape-formed to soft radii. LEXAN FMR604 sheet is an excellent candidate for aircraft window dust covers, acoustic panels, visors, diffusers and graphics.

### TYPICAL PROPERTY VALUES

PROPERTY	TEST METHOD	UNITS	VALUE
<b>PHYSICAL</b>			
Specific Gravity	ASTM D792	g/cm <sup>3</sup>	1.20-1.28
Water Absorption, Equilibrium, 24 hrs	ASTM D570	%	0.17-0.20
Sound Transmission @ 0.125"	ASTM E9070	None	25
Abrasion Resistance, CS10F wheels, 500 gram load, 100 cycles	ASTM D1044-76	%	<10.0
<b>MECHANICAL</b>			
Tensile Strength @ Yield	ASTM D638	psi	10,000
@ Modulus			9,500
Tensile Modulus	ASTM D638	psi	240,000
Elongation	ASTM D638	%	>80
Flexural Strength	ASTM D790	psi	14,000
Flexural Modulus	ASTM D790	psi	345,000
Dynatup Impact Strength, 1/2" dia. dart (Gauge Dependent) <sup>#</sup> @ 73°F	ASTM D3763	ft-lbs	40
Izod Impact Strength (Gauge Dependent) <sup>#</sup> Notched @ 73°F	ASTM D256A	ft-lbs/in	2.4
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>			
FAA Flammability @ 40 to .125 mills	FAR 25.853A	Pass/ Fail	Pass

◆ These property values have been derived from LEXAN™ resin data for the material used to produce this sheet product.

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# Reported values based on 0.125" gauge thickness

## CHEMICAL RESISTANCE

LEXAN™ FMR604 sheet has sufficient resistance to most moderate chemicals. In applications where it will come into contact with aggressive chemicals, specific (application related) testing of the material is strongly recommended.

## FORMABILITY / PROCESSING

LEXAN FMR604 sheet can be cold bent up to a radius of 300 times gauge. Drape forming is possible. Please contact your local SABIC sales office for forming guidelines.

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