

Description

Margard MRFAF2 sheet is a two side coated Lexan polycarbonate sheet offering long term anti-fog performance, excellent scratch resistance, formability, impact resistance, dimensional stability and optical clarity. Lexan Margard FAF sheet also exhibits chemical resistance, tintability and anti-static properties. It has been specifically developed to offer excellent performance in the visor / eye protection industries and related industries:

- Industrial / Sports visors and goggles
- Motorcycle visors
- Windshields, mirrors and windows
- Sunglasses
- Appliance fascias
- Instrument lenses and display panels

Typical Property Values ♦

Property	Test Method	Unit	Value
Physical			
Specific Gravity	ASTM D792	-	1.20
Light Transmission (Average at 0.118")	ASTM D1003	%	86
Initial Haze		HU	<1
Taber @ 100 cycles	ASTM D1044 (ANSI Z26.1)	% haze	<15
Falling Silica (1000g sand)	ASTM D 968	% haze	<5
Water absorption (24 hrs)	ASTM D 570	%	0.15
Water absorption (Equilibrium)	@ 73°F	%	0.35
Fog free time	SABIC-IP test	Seconds	>30
Mechanical			
Tensile Strength, Yield	ASTM D638	psi	9,500
Flexural Strength	ASTM D790	psi	13,500
Instrumented impact 1/2" dia. Dart (gauge dependent) @73F (Average at 0.118")	ASTM D3763	ft-lbs	38
(at 0F)		ft-lbs	34
Thermal			
Coefficient of Thermal Expansion	ASTM D696	in/in/°F	3.75 x 10 ⁻⁵
Heat Deflection Temperature @ 66 psi (Average at 0.118")	ASTM D648	°F	280

♦ 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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Abrasion Resistance Comparison

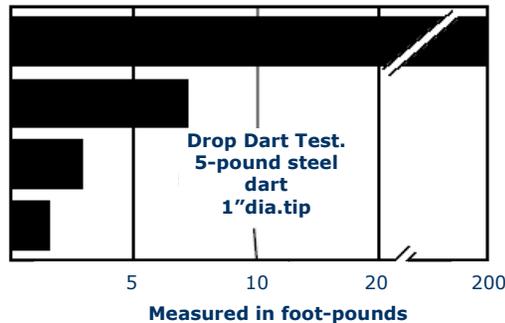
Lexan MRFAF2 sheet exhibits significantly less hazing than uncoated polycarbonate sheet as shown in the abrasion resistance chart.

	Test Method	% Haze		
		Uncoated Polycarbonate	Lexan MRFAF2 Sheet	Glass
Taber Abrasion 100 Cycles CS 10F	ASTM D 1044 Z26.1	35.0	<15	0.5

* The Taber Abrader test measures the percent of change in haze that results from the grinding action of two abrasive impregnated wheels on the test samples. A constant load of 500 grams is maintained as the samples rotate on a turntable for a predetermined number of revolutions.

Impact Resistance

¼" Lexan MRFAF2 sheet
¼" Acrylic
¼" Tempered Glass
¼" Laminated Glass



Chemical Resistance

Lexan MRFAF2 sheet has sufficient resistance to most mineral oils, greases, aliphatic hydrocarbons and acids under low or moderate stress levels. Specific (application related) testing is always advised, especially in applications where the MRFAF2 sheet will come into contact with aggressive chemicals.

Anti-fog / Anti-static

Lexan Margard FAF sheet maintains anti-fog characteristics even after repeated cleaning (refer to cleaning guidelines). The anti-fog property is effective in a wide range of temperature and humidity environments. Lexan Margard FAF can dissipate the build-up of electrostatic charges.

Lexan* Tough
Polycarbonate Sheet Virtually
Unbreakable

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