

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.

* Trademarks of SABIC Innovative Plastics IP BV

Abrasion Resistance Comparison

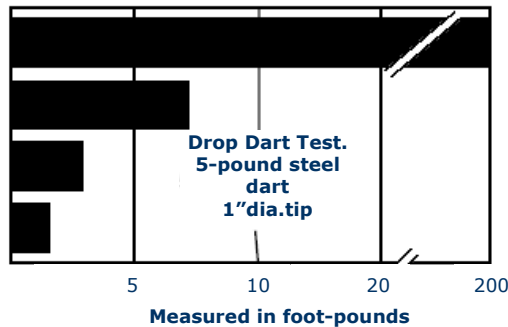
Lexan MRFAF2 sheet exhibits significantly less hazing than uncoated polycarbonate sheet as shown in the abrasion resistance chart.

	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.



* Trademark of SABIC Innovative Plastics IP BV

Americas:
SABIC Innovative Plastics
Specialty Film & Sheet
One Plastics Avenue
Pittsfield, MA 01201, USA
Tel. (1) (413) 448 5400
Fax. (1) (413) 448 7506
Toll free: 1-800 451 3147

Europe:
SABIC Innovative Plastics
Specialty Film & Sheet
Plasticslaan 1
NL - 4612 PX Bergen op Zoom
The Netherlands
Tel. (31) (164) 292911
Fax. (31) (164) 293272

Pacific:
SABIC Innovative Plastics
Specialty Film & Sheet
1266 Nanjing Road (W)
16th Floor, Plaza 66
200040 Shanghai, China
Tel. (86) 21 6288 1088
Fax. (86) 21 6288 0818

THE MATERIALS, PRODUCTS AND SERVICES OF SABIC INNOVATIVE PLASTICS HOLDING BV, ITS SUBSIDIARIES AND AFFILIATES ("SELLER"), ARE SOLD SUBJECT TO SELLER'S STANDARD CONDITIONS OF SALE, WHICH CAN BE FOUND AT <http://www.sabic-ip.com> AND ARE AVAILABLE UPON REQUEST. ALTHOUGH ANY INFORMATION OR RECOMMENDATION CONTAINED HEREIN IS GIVEN IN GOOD FAITH, SELLER MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, (i) THAT THE RESULTS DESCRIBED HEREIN WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (ii) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN INCORPORATING SELLER'S PRODUCTS, SERVICES OR RECOMMENDATIONS. EXCEPT AS PROVIDED IN SELLER'S STANDARD CONDITIONS OF SALE, SELLER SHALL NOT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS PRODUCTS OR SERVICES DESCRIBED HEREIN. Each user is responsible for making its own determination as to the suitability of Seller's products, services or recommendations for the user's particular use through appropriate end-use testing and analysis. Nothing in any document or oral statement shall be deemed to alter or waive any provision of Seller's Standard Conditions of Sale or this Disclaimer, unless it is specifically agreed to in a writing signed by Seller. No statement by Seller concerning a possible use of any product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right of Seller or as a recommendation for the use of such product, service or design in a manner that infringes any patent or other intellectual property right.

SABIC Innovative Plastics is a trademark of SABIC Holding Europe BV

* Trademarks of SABIC Innovative Plastics IP BV