

Description

High abrasion resistant - weatherable, Lexan* Margard* MRXFR sheet is a both-side hard coated, flame retardant polycarbonate sheet offering excellent abrasion resistance, excellent dimensional stability, impact resistance, optical clarity. Typical applications can be sound-barriers, separations screens and flat glazing systems needing impact resistance combined with chemical and abrasion resistance. MRXFR is EN13501-1 certified and is rated according to B,S2,D0

Typical Property Values ♦

Property	Test Method	Unit	Value
Physical			
Density †)	ISO 1183	g/cm ³	1.24
Water absorption 23°C/Sat	ISO 62	%	0.35
Mechanical			
Tensile stress, yield ‡)	ISO 527	MPa	65
Tensile modulus ‡)	ISO 527	MPa	2350
Elongation, yield ‡)	ISO 527	%	6
Elongation, break ‡)	ISO 527	%	100
Flexural strength, yield ‡)	ISO 178	Mpa	95
Flexural modulus†)	ISO 178	MPa	2300
Thermal			
Vicat Softening Temp, Rate B /120‡)	ISO 306	°C	145
HDT/Be, 0.45 MPa‡)	ISO 75/Be	°C	138
Thermal Expansion‡)	ISO 11359-2	1 / °C	7x10 ⁻⁵
Optical			
Light transmission (<3mm)	ASTM D1003	%	89.5
Light transmission (3-6mm)	ASTM D1003	%	89.5-86
Taber abrasion †)			
CS10F, 500g, 500 cycles (ASTMD1044)	ASTM D1003	%haze	< 12

♦ These property values have been derived from Lexan* resin data for the material used to produce this sheet product.

†) The target value for this property is 10% however, the reproducibility of the test method between laboratories is variable in that single, individual measurements can be as high as 12%.

‡) Coating will crack before specified value.

‡) Property of the base sheet and/or uncoated side

* Lexan and Margard are trademarks of SABIC Innovative Plastics IP BV

Chemical resistance

Lexan* Margard* MRXFR sheet has high resistance at the coated side to many chemicals. In applications where it will come into contact with aggressive chemicals, specific (application related) testing of the material is strongly recommended.

Assembling

Parts made from Lexan Margard MRXFR sheet can be assembled with plastics, metals, rubber and other materials using many types of adhesive bonding, welding and mechanical fastening techniques. Since some of these techniques can cause environmental stress cracking, please ensure that you have carried out tests regarding its suitability for your applications or end use.

Product Availability ##)

gauge (mm)	width (mm)	length (mm)	color
3.00	2000	3000	112
4.00	2000	3000	112
6.00	2000	3000	112

##) From 3.00mm up to 6.00mm other dimensions upon request and are subject to minimum order quantities.

Installation

For some applications the ripple orientation may play an important role while installing the Lexan Margard MRXFR sheet. The ripple orientation is indicated for this purpose on the protective masking.

Cleaning

- Never scrape the sheet with squeegees, razorblades or other sharp instruments.
- Do not clean Lexan Margard MRXFR sheet products under sunny and/or hot environments.
- For removal of paints, marker pen inks, lipstick, and graffiti etc., we recommend to use Butyl Cellusolve and products mentioned in the Lexan solid sheet processing manual. Do not use abrasive or alkaline cleaners.
- To remove labels, stickers etc. the use of kerosene, naphta or white spirit is generally effective.
- After having cleaned the Lexan Margard MRXFR sheet a final wash should be made, using a mild soap solution and finishing with a thorough rinsing with cold water.



* 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