

LEXAN™ MARGARD™ MRXFR SHEET

PRODUCT DATASHEET

DESCRIPTION

High abrasion flame resistant - weatherable, LEXAN™ MARGARD™ MRXFR sheet is a both-side hard coated polycarbonate sheet, used for flat applications only, 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. Product cannot be used for cold line bending.

TYPICAL PROPERTY VALUES

PROPERTY	TEST METHOD	UNITS	VALUE
PHYSICAL			
Density	ISO 1183	g/cm ³	1.24
Water absorption, saturation, 23°C	ISO 62	%	0.35
MECHANICAL			
Tensile stress, yield ^{¥)}	ISO 527	MPa	60
Tensile modulus ^{¥)}	ISO 527	MPa	2350
Elongation, yield ^{¥)}	ISO 527	%	6
Elongation, break ^{¥)}	ISO 527	%	100
Flexural strength, yield ^{‡)}	ISO 178	MPa	90
Flexural modulus ^{‡)}	ISO 178	MPa	2300
Taber abrasion ^{¶)}			
CS10F, 500g, 500 cycles (ASTMD1044)	ASTM D1003	% haze	<12
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
FLAMMABILITY			
Reaction to fire (6mm)	EN13501-1		B,S2,D0
OPTICAL			
Light transmission 3 mm	ASTMD1003	%	91
Light transmission 4 mm	ASTMD1003	%	90
Light transmission 5 mm	ASTMD1003	%	89
Light transmission 6 mm	ASTMD1003	%	89
Light transmission 8 mm	ASTMD1003	%	88
Light transmission 9.5 mm	ASTMD1003	%	87
Light transmission 12 mm	ASTMD1003	%	85
Light transmission 15 mm	ASTMD1003	%	84

◆ Some of the 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

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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)
3.00	2000	3000
4.00	2000	3000
6.00	2000	3000
8.00	2000	3000
9.50	2000	3000
12.0	2000	3000

##) From 3.00mm up to and including 12.00mm, 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.

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