

LEXANTM MARGARDTM MR5T SHEET

PRODUCT DATASHEET

DESCRIPTION

Mar and UV-resistant LEXANTM MARGARDTM MR5T Sheet combines the impact strength of Lexan polycarbonate sheet with an abrasion and UV resistant surface that approaches glass in performance. LEXANTM MARGARDTM MR5T Sheet with MARGARDTM coating is backed by a five-year limited written warranty against yellowing, abrasion resistance, breakage, loss of light transmission, and coating failure.1) LEXANTM MARGARDTM MR5T Sheet is a great candidate for transportation and glazing applications requiring improved Taber. Our coating is graffiti-resistant enabling restoration to a like-new condition. Due to its mar-resistant coating, LEXANTM MARGARDTM MR5T sheet cannot be cold-formed.

TYPICAL PROPERTY VALUES

PROPERTY	TEST METHOD	UNITS	VALUE
Physical			
Specific Gravity	ASTM D792	-	1.20
Light Transmission (Average), 1/8" Thick	ASTM D1003	%	88
Chemical Resistance	ANSI Z26.1	-	Passes#
Mechanical			
Tensile Strength, Ultimate	ASTM D638	psi	9,500
Flexural Strength	ASTM D790	psi	13,500
Flexural Endurance @ 1,800 Cycles/Min,			
73°F, 50% RH	ASTM D671	psi	1,000
Compressive Strength	ASTM D695	psi	12,500
Modulus of Elasticity	ASTM D638	psi	345,000
Drop Ball Impact Strength‡	SABIC Test	ft-lbs	
@ 73°F			>200
@ 32°F			>200
@ 0°F			>200
Thermal			
Coefficient of Thermal Expansion	ASTM D696	in/in/°F	3.75 ×10 ⁻⁵
Heat Deflection Temperature @ 264 psi	ASTM D648	°F	260
Flammability			
Horizontal Burn (Flame Spread)	ASTM D635	in	
AEB			<1
Ignition Temperature	ASTM D1929	°F	
Flash			873
Self			1,076

These typical values are not intended for specification purposes. If minimum certifiable properties are required please contact your local SABIC Innovative Plastics' representative.

Gasoline and kerosene - no tackiness, crazing or loss of transparency for a minimum of 48 hours.

‡ 5-lb steel ball dropped from a height of 40 feet

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UL File Number: E121562

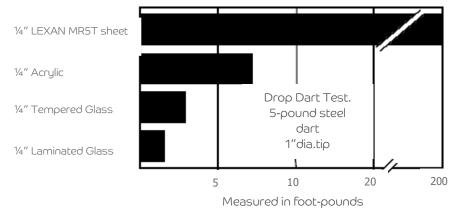
ABRASION RESISTANCE COMPARISON

LEXANTM MARGARDTM MR5T Sheet exhibits significantly less hazing than uncoated polycarbonate sheet as shown in the abrasion resistance chart.

		% Haze		
	Test Method	Uncoated Polycarbonate	LEXAN™ MARGARD™ MR5T Sheet	Glass
Taber Abrasion 100 Cycles CS 10F	ASTM D1044 Z26.1	35.0	<2	0.5
At 500 Cycles	ASTM D1044	35.0	<7	0.90

[‡] 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



CONTACT US:

Middle East and Africa

SABIC Global Headquarters PO Box 5101 Riyadh 11422 Saudi Arabia T +966 (0) 1 225 8000 F +966 (0) 1 225 9000 E info@sabic.com

Americas

Functional Forms 2500 City West Boulevard Suite 100 Houston, TX 77042 USA Toll-free (800) 323 3783 F (888) 443 2033 E spinside.sales@sabic.com

Europe

Functional Forms Plasticslaan 1 4612 PX Bergen op Zoom The Netherlands T +31 (0)164 293678 F +31 (0)164 293272 E ff.info@sabic.com

Asia Pacific

Functional Forms 2550 Xiupu Road Pudong 201319 Shanghai China T +86 21 2037 8188 F +86 21 2037 8288 E ff.info@sabic.com



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