SABIC Innovative Plastics™

Lexan* MRT Sheet



Product Datasheet

Description Lexan MRT sheet is a transparent, high impact Lexan polycarbonate sheet with a proprietary abrasion-resistant surface. Lexan MRT sheet meets the performance requirements of ANSI Z26.1, required by the Department of Transportation per FMVSS 205, and UMTA guidelines for flammability for windows and lighting lenses.

Typical Property Values

Property	Test Method	Unit	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	340,000
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 x 10 ⁻⁵
Heat Deflection Temperature @ 264 psi	ASTM D648	°F	260
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 ٠ 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 #

ŧ

* Trademarks of SABIC Innovative Plastics IP BV







Product Datasheet

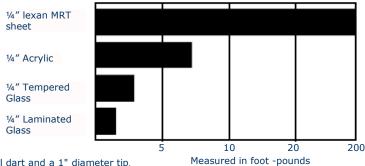
Lexan* MRT Sheet

Abrasion Resistance Comparison[‡]

		% Haze		
	Test Method	Uncoated Polycarbonate	Lexan MRT Sheet	Glass
Taber Abrasion 100 Cycles CS 10F	ASTM D 1044 Z26.1	35.0	1-3	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[¶]



1) Drop Dart Test with a 5-lb steel dart and a 1" diameter tip.



* 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

