POLYVANTIS

PRODUCT DATASHEET

LEXAN™ MARGARD™ MR101LG SHEET

DESCRIPTION

One Side Coated Mar/UV-resistant LEXAN™ MARGARD™ MR101LG sheet combines the impact strength of LEXAN polycarbonate sheet with a proprietary abrasion/UV resistant surface that approaches glass in performance. LEXAN MARGARD MR101LG Sheet with MARGARD™ coating is the only Polycarbonate material backed by a ten-year limited warranty against yellowing, abrasion resistance, breakage, loss of light transmission, and coating failure. LEXAN MARGARD MR101LG One Side Hard Coated Sheet is a great candidate for all Lamination Applications. Our unique coating is graffiti-resistant enabling restoration to a like-new condition. In addition, LEXAN MARGARD MR101LG sheet offers improved resistance to weathering as well as forced entry protection. It is well-suited for use in stores, public buildings, schools, bus shelters and other high traffic areas. LEXAN MARGARD MR101LG sheet is for transparent applications only. Because of its high mar-resistant surface, paint, adhesives and other materials will not adhere to its surface. Due to its mar-resistant coating, LEXAN MARGARD MR101LG 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 D696	psi	12,500
Modulus of Elasticity	ASTM D638	psi	345,000
Drop Ball Impact Strength*	POLYVANTIS Test	ft-lbs	
@ 73°F			>200
@ 32°F			>200
@ 0°F			>200
Thermal			
Coefficient of Thermal Expansion	ASTM D696	in/in/°F	3.75 x10^{-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 POLYVANTIS Innovative Plastics' representative.

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

£ Request details of limited ten-year warranty plus cleaning and maintenance instructions.

UL File Number: E539157

POLYVANTIS

Polycarbonate products are sold globally under the trademark LEXAN™ Film & Sheet, owned by SABIC or its subsidiaries or affiliates.

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LEXAN™ POLYCARBONATE FILM & SHEET Tough, Virtually Unbreakable

LEXAN is a trademark of SABIC