



LEXGARD® MP1000 Laminate

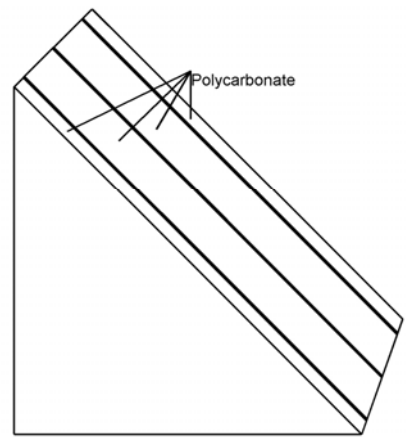
Product Datasheet

Description

LEXGARD® MP1000 laminate is a four-ply polycarbonate laminate primarily developed for security protection. MP1000 laminate combines dependable ballistic protection and exceptional abrasion resistance.

Typical Property Values

Property	Value
Gauge/Tolerance	1.03 ± 5%
Weight	6.4 lbs per sq. ft
Shading Coefficient	.93 Clear
U-Factor	.62
% Light Transmission (Average Gardner Value)	72 Clear



LEXGARD® Laminate MP1000

Specifications

LEXGARD® MP1000 Laminate:

Four-ply, clear, extruded polycarbonate of the following construction:

- 1/8" Polycarbonate sheet with an abrasion resistant surface
- Polyurethane interlayer
- 3/8" Polycarbonate sheet
- Polyurethane interlayer
- 3/8" Polycarbonate Sheet
- Polyurethane interlayer
- 1/8" Polycarbonate sheet with an abrasion resistant surface

Available Colors	Clear (112) Bronze (5109) Grey (713) Green(31035)									
Standard Sheet Sizes (in inches)	<table border="0"> <tr> <td>38 x 96</td> <td>48 x 48</td> <td>48 x 60</td> </tr> <tr> <td>48 x 72</td> <td>48 x 96</td> <td>60 x 96</td> </tr> <tr> <td>72 x 96</td> <td></td> <td></td> </tr> </table>	38 x 96	48 x 48	48 x 60	48 x 72	48 x 96	60 x 96	72 x 96		
38 x 96	48 x 48	48 x 60								
48 x 72	48 x 96	60 x 96								
72 x 96										

Material shall have a flexural strength not less than 13,500 psi (ASTM D790); 72% light transmission (ASTM D1003). Material shall be a total thickness of 1.03 ± 5%. Material shall have an abrasion resistance surface to improve service life performance, and must conform with ICBO, BOCA, and SBCCI Model Building Codes as an Approved Light-Transmitting Plastic with a C1 (CC-1) flammability performance level.



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Ballistic & Forced Entry Rating and Test Results

Complies with the requirements of HPW-TP-0500.02 for Level IV (Step 52) forced entry material.
Test result = Level IV (last step passed = Step 52)

Tested using ASTM F 1233-08 forced entry standard:
Test result = Contraband Class II (Last step passed = Step 11)
Test result = Body passage Class V (last step passed = Step 41)

Recognized by Underwriters Laboratory as providing Level 2 (.357 Magnum) handgun protection per UL Standard 752.
Test procedures for above products are available from: H.P. White Laboratories, 3114 Scarboro Road, Street, Maryland 21154.

Glazing Information

Structural security metal framing is suggested and where applicable rated to the appropriate bullet resistant level.

A minimum edge engagement of one (1) inch is recommended with allowances for material expansion.

(Larger lites may require deeper engagements.)

The use of compatible sealant or gasket material is recommended, with flexible material on both sides of the laminate.

Do not use PVC gasket material.

Do not use setting blocks made from PVC, EPDM, or neoprene rubber materials. Santoprene[†] rubber should be suggested.

If these other rubber products are required, a protective barrier material should be used between the rubber setting block and the LEXGARD® sheet edge.

* Santoprene is a registered trademark of Exxon Mobil Corporation