

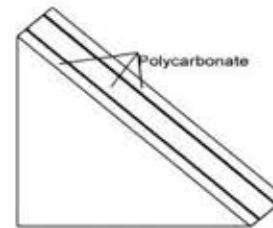
Product Datasheet

Description

LEXGARD® MPC500 laminate is a three ply polycarbonate laminate primarily developed for security protection. LEXGARD® MPC500 laminate combines dependable protection and an exceptional abrasion resistance surface. For UL ballistic protection, LEXGARD® MPC500 laminate must be used behind glass as a component in a replaceable glass system.

Typical Property Values

Property	Value
Gauge/Tolerance	.500" ± 5 %
Weight	3.1 lbs per sq. ft
Shading Coefficient (Calculated)	1.01 Clear
U-Factor	.82
% Light Transmission (Average Gardner Value)	83 Clear



Specifications

LEXGARD® MPC500 laminate:

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

- 1/8" Polycarbonate sheet with an abrasion resistant surface
- Polyurethane interlayer
- 1/4" Polycarbonate sheet
- Polyurethane interlayer
- 1/8" Polycarbonate sheet with an abrasion resistant surface

LEXGARD® Laminates MPC 500

Available Colors	Clear (112) Bronze (5109) Grey (713) Green(31035)		
Standard Sheet Sizes (in inches)	38 x 96 48 X 72 60 X 96	48 X 60	48 X 48 48 X 96 72 X 96

Material shall have a flexural strength not less than 13,500 psi (ASTM D790); 83% light transmission (ASTM D1003). Material shall be a total thickness of .500 ± 5%. Material shall have an abrasion resistant surface and service life performance, and must conform with ICBO, BOCA, and SBCCI Model Building Codes as an Approved Light-Transmitting Plastic with a C1 (CC81) flammability performance level.

LEXGARD® MPC500 laminate alone maintains no Underwriters Laboratories (UL 752) ballistic rating, but is used as a component in systems which include laminated safety glass and an appropriate air space to achieve varying ballistic ratings.

LEXGARD® is a registered trademark of LEXGARD® Laminates LLC

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Ballistic & Forced Entry Rating and Test Results

LEXGARD® MPC500 laminate, when used as a stand-alone glazing product, meets the requirements of HPW-TP-0500.00 for: Level II (Step 14)—Forced entry material.

LEXGARD® MPC500 laminate, when used as a stand alone glazing product, complies with the requirements of ASTM F1233-98 for Class III (Step 15)—Forced Entry Protection.

Tested using ASTM F-1915-03 forced entry standard: Test Result = Security Grade Level 2

LEXGARD® MPC500 laminate is capable of providing varying Levels of ballistic protection per UL Standard 752 when used behind glass as a component in a replaceable glass system.

WMFL 60 minute forced entry.

Tested using ASTM F 1233-08 forced entry standard:

Test result = Contraband Class II (Last step passed = Step 6)

Test result = Body passage Class V (last step passed = Step 22)

Glazing Information

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

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

Manufactured by:



Selma, AL



Standard Bent
Glass Corp
Butler, PA