



LEXGARD[®] LAMINATES

LEXGARD[®] MPC375 Laminate

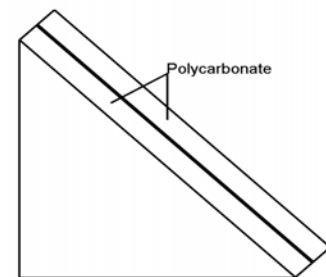
Product Datasheet

Description

LEXGARD[®] MPC375 laminate is a two-ply polycarbonate laminate primarily developed for security protection. LEXGARD[®] MPC375 laminate combines dependable protection and exceptional abrasion resistance. For UL ballistic protection, LEXGARD[®] MPC375 laminate must be used behind glass as a component in a replaceable glass system.

Typical Property Values

Property	Value
Catalog Number	MPC375
Gauge/Tolerance	.370" ± 5 %
Weight	
Without Glass	2.3 lbs per sq. ft
With 1/4" Glass	5.5 lbs.per sq.ft
Shading Coefficient (Calculated)	
Without Glass	1.03 (Clear)
With 1/4" Glass	.98 (Clear)
U-Factor	
With Glass	.89
Without Glass	.48
% Light Transmission (Average Gardner Value)	
With Glass	86 (Clear)
Without Glass	78 (Clear)



LEXGARD Laminate MPC375

Specifications

LEXGARD[®] MPC375 Laminate:

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

- 3/16" Polycarbonate sheet with an abrasion resistant surface
- Polyurethane interlayer
- 3/16" Polycarbonate sheet with an abrasion resistant surface

Material shall have a flexural strength not less than 13,500 psi (ASTM D790); 86% light transmission (ASTM D1003). Material shall be a total thickness of .370B ±5%. Material shall have an abrasion resistant 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.

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

LEXGARD[®] MPC375 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 Test Results

LEXGARD® MPC375 laminate, when used as a stand alone glazing product, meets the requirements of HPW TP 0500.00 for: Level A— Ballistic material (.38 Special handgun); Level II (Step 10)—Forced entry material.

Tested using ASTM F 1915-03 forced entry standard: Test Result Security Grade Level 3

LEXGARD® MPC375 laminate is capable of providing varying levels of ballistic protection as specified by UL Standard 752 when used behind glass as a component in replaceable glass system.

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WMFL 30 minute forced entry.

Tested using ASTM f 1233-08 forced entry standard:

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

Test results = Body Passage Class V (Last step passed = Step 22)

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.

When used behind glass, proper installation is essential to assure the proper level of protection.

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

Global Security Glazing, 616 Selfield Road, Selma, AL, 36703, 1-800-640-6541