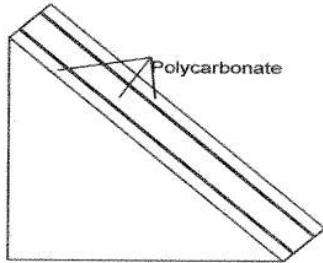


LEXGARD® MPC500 LAMINATE

Offering innovative solutions for bullet, blast, impact and wind resistance.



DESCRIPTION

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

TYPICAL PROPERTY VALUE

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

SPECIFICATIONS

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

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 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 (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.

Available Colors:

Clear (112) Grey (713)
Bronze (5109) Green (31035)

Standard Sheet Sizes (in inches)

38 x 96 48 x 96
48 x 48 60 x 96
48 x 60 72 x 96
48 x 72

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 A — Ballistic material (.38 Special handgun)
- 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 F1915-03 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 F1233-08 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 either a registered trademark or trademark of Exxon Mobil.

Lexgard® is either a registered trademark or trademark of Global Security Glazing.

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