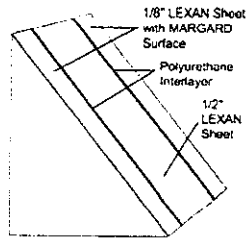


Insulgard^{*}

SECURITY PRODUCTS

Lexgard® RC750 Laminate Product Datasheet



DESCRIPTION

Lexgard® RC750 Laminate is a three-ply Lexan^{*} polycarbonate laminate primarily developed for security protection. Lexgard RC750 laminate with a Margard^{*} sheet surface combines dependable protection and exceptional abrasion resistance. UL "Ballistic" protection, Lexgard RC750 laminate must be used behind glass as a component in a replaceable glass system^{*}.

PRODUCT INFORMATION**

Catalog Number	RC750		
Gauge/Tolerance	.75 +/- 5%		
Weight (lbs. per sq. ft.)	Without Glass: 4.6 lbs per sq. ft. With 3/4" Glass: 14.8 lbs per sq. ft.		
Shading Coefficient (Calculated)	Without Glass: .97 Clear With 3/4" Glass: .86 Clear		
U-Factor	Without Glass: .71 With 3/4" Glass: .41		
% Light Transmission (Average Gardner Value)	Without Glass: 77 Clear With 3/4" Glass: 60 Clear		
Available Colors	Clear (112) Bronze (5109); Dark Bronze (5109DB) Gray (713); Dark Gray (713DB)		
Standard Sheet Sizes (in inches)	36 x 60 38 x 78 38 x 96	48 x 60 48 x 72 48 x 96	60 x 72 60 x 96

*These are typical properties and are not intended for specification purposes.

SPECIFICATION

3-ply, clear, extruded Lexan polycarbonate of the following construction:

- 1/8" Lexan sheet with a Margard surface
- Polyurethane interlayer
- 1/2" Lexan sheet
- Polyurethane interlayer
- 1/8" Lexan sheet with a Margard surface

Material shall have a flexural strength not less than 13,500 psi (ASTM D790); 77% light transmission (ASTM D1003). Material shall be a total thickness of .75" +/- 5%. Material shall have a Margard surface for abrasion resistance and 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.

**LEXGARD RC750 laminate alone maintains no Underwriters Laboratories (UL752) 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.

*Trademark of SABIC Innovative Plastics IP BV
Lexgard is a registered trademark of LEXGARD Laminates LLC
Santoprene is a registered trademark of Exxon Mobil Corporation

BALLISTICS & FORCED ENTRY RATING AND TEST RESULTS

- Tested using HPW-TP-0500.02 forced entry standard:
Test result = Body passage Level III (last step passed=38)
- Tested using ASTM F1233-98 forced entry standard:
Test result = Contraband Class II (last step passed=11)
Test result = Body passage Class IV (last step passed=31)
- Lexgard RC750 laminate is capable of providing varying levels of ballistic protection, as specified by Underwriters Laboratories UL Standard 752, when used behind glass as a component in a replaceable glass system^{*}.

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 rubbers are required, a protective barrier material should be used between the rubber setting block and the Lexgard sheet edge.
- When used behind glass, proper installation is essential to assure the proper level of protection.

NOTE: When used in a glass-faced system, glass facing, air space, sealants and spacer materials are left to architect's discretion and application; however, it is recommended that systems be designed around General Electric Authorized Fabricator specifications for maximum performance.

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DS174-1003