

Makrolon Hygard BR750 Product Data



MAKROLON HYGARD BR750 laminate is a two-ply MAKROLON polycarbonate sheet and acrylic sheet for security applications that require UL Listed Level 1 bullet resisting glazing. MAKROLON HYGARD BR750 laminate features abrasion and UV resistant surfaces for extended service life in harsh environments.

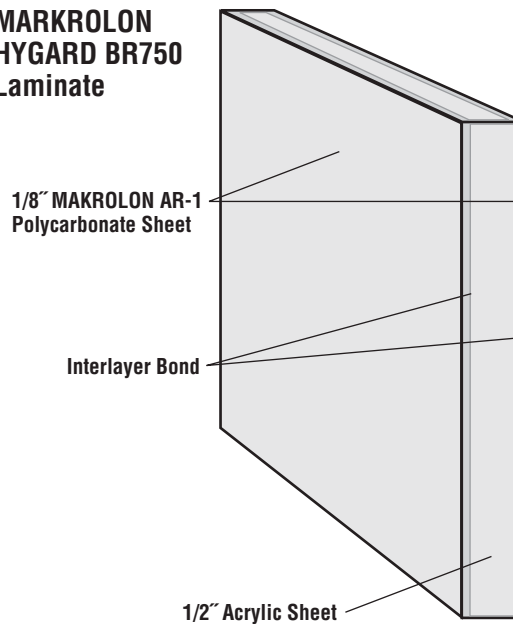
APPLICATIONS

MAKROLON HYGARD BR750 laminate is used as bullet-resistant glazing in a wide variety of security applications. Installations include 24-hour convenience stores, specialty retailers, banks, government and detention facilities, as well as other cash transaction areas.

Typical Physical Properties

Gauge/Tolerance	.780 ± 8%
Weight	5.1 lbs./s.f.
Shading Coefficient	.89
% Light Transmittance	88% (clear)
Colors	Standard: Clear Custom Colors on request
Sheet Sizes	Standard: 38" x 96" 48" x 60" 48" x 96" 48" x 72" 60" x 96" Custom Sizes on request

MARKROLON HYGARD BR750 Laminate



BALLISTICS RATING

UL752 Level I MPSA 9mm
H.P. WHITE TP0500.02 Level B Ballistics (9mm)



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GLAZING INFORMATION

- Use of structural security framing systems with equal or greater forced entry and/or ballistics ratings as the selected MAKROLON HYGARD laminate is recommended.
- Size MAKROLON HYGARD laminates to allow for a minimum of 1" edge engagement in the frame, with sufficient rabbet depth for material expansion (approx. 1/16"/ft.).
- Use wet or dry sealants/gaskets that are compatible with polycarbonate.
- Remove protective masking after glazing operations are completed and before prolonged exposure to direct sunlight, moisture, or high temperature.

CLEANING INSTRUCTIONS

- Rinse with clean water to remove abrasive dust and dirt.
- Wash with soap or mild detergent using a sponge or soft cloth. Do not scrub.
- Rinse once more. Dry with a soft cloth or chamois to prevent water spots.
- To remove labels, stickers, or grease, rub gently with a cloth wetted thoroughly in VM & P naphtha or isopropyl alcohol. Wash & rinse. Do not use razor blades, scrapers, or squeegees.

Product Specification

MAKROLON HYGARD BR750 laminate:

Two-ply, clear MAKROLON polycarbonate sheet and acrylic sheet constructed as follows:

- 1/8" MAKROLON polycarbonate sheet with high AR abrasion-resistant surface
- Polyurethane bonding interlayer
- 1/2" Acrylic sheet
- Polyurethane bonding interlayer
- 1/8" MAKROLON polycarbonate sheet with high AR abrasion-resistant surface

Material shall have a flexural strength of at least 13,500 psi per ASTM D-790; and shall have AR (high performance abrasion-resistant) surfaces for enhanced service life and resistance to marring. Material shall exhibit a self ignition temperature of 1077°F and a flash ignition temperature of 872°F (ASTM D-1929), and conform with ICBO & BOCA Model Building Codes as a CC-1 rated Approved Light Transmitting Plastic.