



# Hygard® BR750 sheet

## Ballistic glazing - Level 1

Hygard® BR750 ballistic grade sheet is a 0.750", 3-ply polycarbonate and acrylic laminate that meets the UL 752 Level 1 rating for 9 mm ballistic attack. All Hygard products incorporate Makrolon® polycarbonate sheet produced for high optical quality in security glazing laminates. Exterior surfaces have a proprietary Makrolon AR hardcoat that facilitates cleaning and resists marring, chemical, and graffiti attack. Hygard BR750 sheet has a seven (7) year Limited Product Warranty against coating failure, yellowing, and hazing. The terms of the warranty are available upon request.

Typical Properties*	
Property	Values
Gauge / Tolerance	0.780 in ± 5%
Weight	5.1 lbs / sq ft
Shading Coefficient	0.89
U-Value	0.65
Light Transmission	88%

\*Typical properties are not intended for specification purposes

Product Performance Ratings
<p><b>BALLISTIC</b> UL 752 Level 1 (9 mm Full Metal Copper Jacket with lead)</p>
<p><b>AGENCY INFORMATION</b> UL File: BP6864 Combustibility Class CC2 Miami-Dade NOA 12-0605.05</p>

## Applications

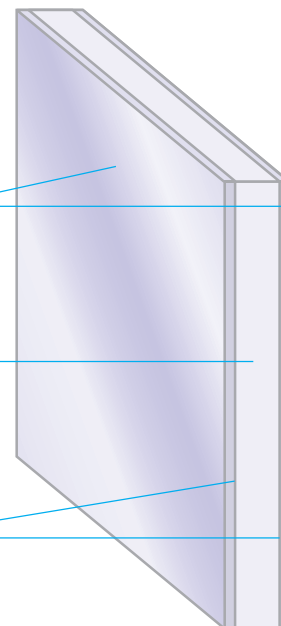
Government and detention facilities, banks, heavy equipment glazing, specialty retailers, 24 hour convenience stores, cash transaction windows

### Hygard® BR750 Sheet Construction

1/8" Makrolon® AR-1 Sheet

1/2" Acrylic Sheet

Interlayer Bond



# Hygard® BR750 sheet

## Glazing recommendations

- Structural security framing systems with equal or greater forced entry and/or ballistics ratings as the selected Hygard laminate are recommended
- Hygard laminate should be cut to allow for a minimum of one (1) inch 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

## Standard sheet size

48" x 60", 48" x 72", 38" x 78", 38" x 96", 48" x 96",  
60" x 72", 60" x 96"

## Product specification

Hygard BR750 polycarbonate and acrylic laminate:

- Three-ply, clear Makrolon® polycarbonate sheet constructed as follows:
  - 1/8" Makrolon AR-1 abrasion resistant surface
  - Polyurethane bonding interlayer
  - 1/2" acrylic sheet
  - Polyurethane bonding interlayer
  - 1/8" Makrolon AR-1 abrasion resistant surface

Distributed by:



**Piedmont Plastics®**  
where solutions take shape

Toll Free: 1.800.277.7898

[www.piedmontplastics.com](http://www.piedmontplastics.com)



The manner in which you use and the purpose to which you put and utilize our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations, are beyond our control. Therefore, it is imperative that you test our products, technical assistance, information and recommendations to determine to your own satisfaction whether our products, technical assistance and information are suitable for your intended uses and applications. This application-specific analysis must at least include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by Covestro.

Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale which are available upon request. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed that you assume and hereby expressly release us from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance, and information. Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with any claim of any patent relative to any material or its use. No license is implied or in fact granted under the claims of any patent.

With respect to health, safety and environment precautions, the relevant Material Safety Data Sheets (MSDS) and product labels must be observed prior to working with our products.