

Hygard® CG500 sheet

Containment grade

Hygard® CG500 containment grade sheet is a 0.500", 3-ply polycarbonate laminate that meets ASTM F 1233 Class II and HP White TP 0500 Level A Ballistics (.38 Special), single shot. Unlike glass-clad products, this all-polycarbonate laminate resists spalling and white-out after repeated high force and ballistic impacts, an advantage in maintaining visibility of a threat during an 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 CG500 sheet has a seven (7) year Limited Product Warranty against coating failure, yellowing, and hazing. The terms of the warranty are available upon request.

Applications

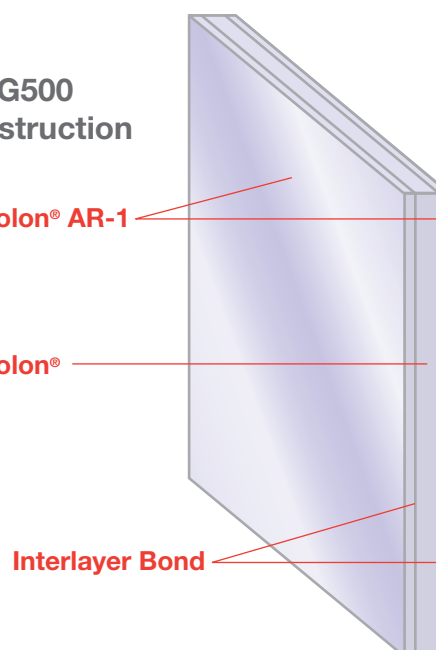
Jails, detention centers, psychiatric hospitals, reception areas, convenience stores, check cashing

| Typical Properties* | |
|---------------------|-----------------|
| Property | Values |
| Gauge / Tolerance | 0.522 in ± 5% |
| Weight | 3.3 lbs / sq ft |
| Shading Coefficient | 0.90 |
| U-Value | 0.74 |
| Light Transmission | 83% |

*Typical properties are not intended for specification purposes

| Product Performance Ratings |
|--|
| BALLISTIC H.P. White TP 0500.03, Level A |
| FORCED ENTRY & CONTAINMENT ASTM F 1233.98 Class II Paragraphs 9.2.4.1 & 9.2.4.2 ASTM F 1915.03 Grade 2 H.P. White TP 0500.03 Level 1 Sequence 15 |
| AGENCY INFORMATION Combustibility Class CC1 Miami-Dade NOA 10-0329.03 |

Hygard® CG500 Sheet Construction



Hygard® CG500 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

38" x 96", 48" x 96", 60" x 96"

Product specification

Hygard CG500 polycarbonate laminate:

- Three-ply, clear Makrolon® polycarbonate sheet constructed as follows:
 - 1/8" Makrolon AR-1 abrasion resistant surface
 - Polyurethane bonding interlayer
 - 1/4" Makrolon polycarbonate sheet
 - Polyurethane bonding interlayer
 - 1/8" Makrolon AR-1 abrasion resistant surface



Bayer MaterialScience

Bayer MaterialScience
119 Salisbury Road
Sheffield, MA 01257
Toll Free: 800.254.1707
Fax: 800.457.3553
info@sheffieldplastics.com
www.sheffieldplastics.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 and information 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 us. 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.