

MAKROLON[®] HYGARD MS1250 Sheet

Level 6 Security Glazing

Makrolon Hygard MS 1250 is a four ply laminate sheet is designed for the high demands of ballistic applications. MAKROLON HYGARD MS1250 is a no spall and no white out sheet product. This product features a coating that provides resistance to abrasion, UV, chemical attack and graffiti. MAKROLON HYGARD MS1250 has been tested to the following standards: UL 752, Supplementary Shotgun. MAKROLON HYGARD MS1250 has a seven (7) year Limited Product Warranty against coating failure, yellowing and hazing. The terms of the warranty are available upon request.

Applications

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

Gauge/Tolerance	1.30 in +/- 5%
Weight	8.1 lbs / sq ft
Shading Coefficient	.98
U Value	.56
Light Transmittance	78%

Product Performance Ratings

Ballistic

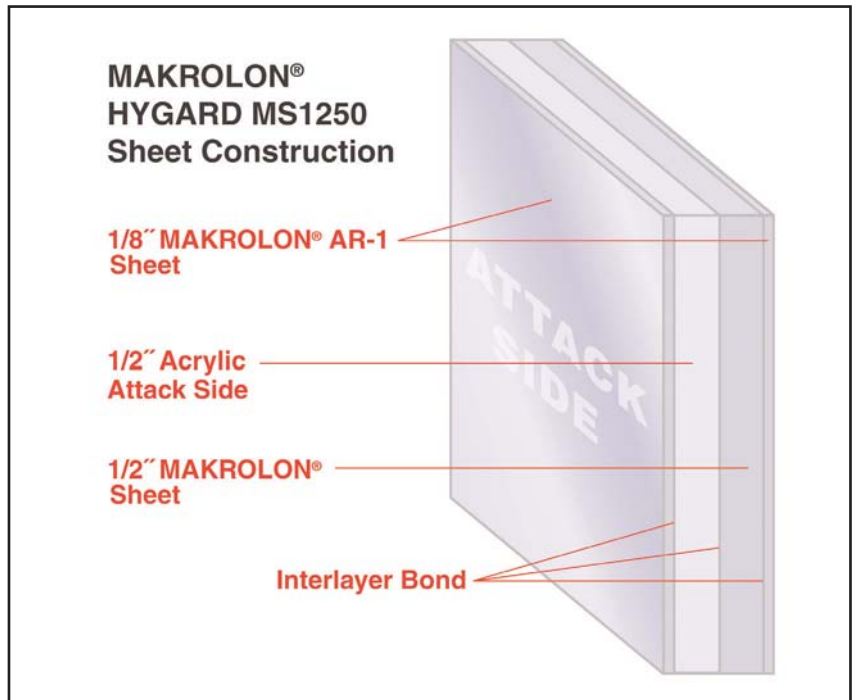
UL 752 Level 6 Multiple shots from a sub-machine gun, such as a 9mm Uzi, with muzzle energy 540 – 653 foot-pounds.

Supplementary Shotgun

A supplementary UL test using a rifled lead slug with a muzzle energy of 2438 – 2950 foot-pounds (3306 – 4000 J) and 00 lead buckshot with a muzzle energy of 2078 – 2415 foot-pounds (2818 – 3275 J), fired from a 12-gauge shotgun.

Agency Information

Combustibility Class CC2
 UL File: BP6864
 Miami-Dade NOA 10-0329.03



Product Data

MAKROLON® HYGARD MS1250 Sheet

Glazing Information

- Structural security framing systems with equal or greater forced entry and/or ballistics ratings as the selected HYGARD Laminate are recommended.
- MAKROLON HYGARD MS1250 must be installed with acrylic ply facing the ballistic attack side.
- 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 96"

Product Specification

MAKROLON HYGARD MS1250 polycarbonate and acrylic laminate:

Four ply, clear MAKROLON polycarbonate sheet constructed as follows:

- 1/8" MAKROLON® AR-1 abrasion resistant surface
- Polyurethane bonding interlayer
- 1/2" MAKROLON® polycarbonate sheet
- Polyurethane bonding interlayer
- 1/2" acrylic sheet
- Polyurethane bonding interlayer
- 1/8" MAKROLON AR-1 abrasion resistant surface

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