

# LEVEL #1: MP 1.25 ACRYLIC SHEET



Offering innovative solutions for bullet, blast, impact and wind resistance.

## TYPICAL PROPERTIES OF POLYCAST® SAR™ MP 1.25 (UL LEVEL 1)

### Code ratings and Standards:

Meets the test requirements of Building Code class CC2,  
ANS, Z97.1-Safety Glazing Material,  
ANS, Z26.1-Motor Vehicle Safety Glazing Material,  
Dade County Approval, Federal Specification L-P-391D+ASTM D 4802.

**Maximum Continuous Service Temperature:** 170° F

**Minimum Continuous Service Temperature:**  
-26° F (lowest temperature tested for bullet-resistance)

## FEATURES

### Protection

9 mm

### Optical Properties

Transmission: >90%  
Haze <1%

### U.L. Designation

752, Level 1

### Thickness

1.25"

**Polycast® SAR™ Super  
Abrasion-Resistant Coating**  
Optional

### Available in Tints

### Weight (lbs/sq foot)

7.7

### Sizes

4' x 6'      6' x 6'  
4' x 8'      6' x 8'  
5' x 6'      6' x 10'  
5' x 8'

## PRODUCT DESCRIPTION

MP 1.25 is one of our thinnest and lightest bullet resisting products. It protects against handguns of medium power, such as the 9 mm and Super38 Automatic — any handgun with a muzzle energy of 380 to 460 foot-pounds. It is offered with and without Polycast® SAR™ Super Abrasion-Resistant coating.

|                                |                           |                  |
|--------------------------------|---------------------------|------------------|
| <b>Ballistic Protection</b>    | 9mm                       | UL 752           |
| <b>Optical Properties</b>      |                           |                  |
| Light Transmission             | >90%                      | ASTM D1003       |
| Haze                           | <1.0%                     | ASTM D1003       |
| Yellowness Index               | <0.7%                     | ASTM D1925       |
| <b>Mechanical Properties</b>   |                           |                  |
| Thickness                      | 1.250in.                  |                  |
| Weight                         | 7.7 #/sq.ft.              |                  |
| Abrasion Resistance (coated)   | 0.2 to 2.0 (%haze change) | Taber 100 cycles |
| Abrasion Resistance (uncoated) | 14 (%haze change)         | Taber 100 cycles |
| Tensile Strength               | 9,500 psi                 | ASTM D638        |
| Tensile Modulus                | 400,000 psi               | ASTM D638        |
| Flex Modulus                   | 400,000 psi               | ASTM D790        |
| <b>Flammability</b>            |                           |                  |
| Burn Rate                      | 1.2in./min                | ASTM D635        |
| Smoke Density                  | Max: 8%; Rating: 5%       | ASTM D2843       |
| Auto Ignition Temperature      | 465° C (870° F)           | ASTM D1921       |

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