

**LEVEL 1**

**MP 1.25**

MP 1.25 is one of our thinnest and lightest bullet resisting products. It protects against handgun 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.

Polycast is recognized the world over for its commitment to customer service and technical assistance. Please feel free to contact ***Protective Structures, Ltd***. at any stage, from design and specification to fabrication, installation and care. For assistance, please call

1-888-521-8666.

Protection Thickness Weight\*

9mm 1.25 7.7

Optical Properties Polycast SAR™ Sizes

Transmission: >90% Super Abrasion-Resistant Coating 4’ x 6’

Haze <1% Optional 4’x 8’

5’ x 6’

5’ x 8’

U.L. Designation Available in Tints 6’ x 6’

752, Level 1 6’ x 8’

6’ x 10’

\*pounds per square foot



**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)

Value Test Method

Ballistic Protection 9mm UL 752

Optical Properties

Light Transmission >90% ASTM D1003

Haze <1.0% ASTM D1003

Yellowness Index <0.7% ASTM D1925

Mechanical Properties

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 9500 psi ASTM D638

Tensile Modulus 400,000 psi ASTM D638

Flex Modulus 400,000 psi ASTM D790

Flammability

Burn Rate 1.2in./min ASTM D635

Smoke Density Max: 8%; Rating: 5% ASTM D2843

Auto Ignition Temperature 465° C (870° F) ASTM D1921