

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

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.

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	9,500 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

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