



## Polycast® Acryshield™ Bullet Resistant Sheet

Polycast® Acryshield™ Bullet Resistant sheet is an effective solution for essential barrier protection in glazing applications. The different available grades are UL designated and are designed to fit a variety of ballistic protection applications.

The characteristics most often considered when choosing a bullet resistant sheet are adequate protection, weight, optical clarity and cost. Polycast® Acryshield™ bullet resistant sheet offers the right balance of properties to meet these specific protection needs. Lighter weight than glass, and with superior optical clarity, Polycast® Acryshield™ bullet resistant sheet is a clear choice for ballistic protection.

### KEY CHARACTERISTICS

- **Lighter weight**—weighs 48% less than glass with the same UL rating, and less than polycarbonate sheet offering the same protection
- **Optical clarity**—transmits more light than bullet resistant glass or polycarbonate
- **Design flexibility**—can be cut to any size using standard tools without chipping or cracking, and can be formed into curved shapes and polished to a clear luster; color and tint options also available

- **Long-lasting appeal**—maintains beauty over time; will not turn yellow, haze, degrade or turn brittle when exposed to the elements
- **Abrasion resistance**—available with a super abrasion resistant (SAR) coating that can maintain 45 times the abrasion resistance of uncoated acrylic

### MARKET AND APPLICATIONS

Polycast® Acryshield™ bullet resistant sheet is effective for use in many environments, including:

- Retail storefronts such as banks, convenience stores, pharmacies or jewelry stores
- School buildings
- Residential or office buildings
- Government buildings and embassies
- Armored vehicles, both military and civilian

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# Available Grades

## UL 752 Ballistic Standards



### Acryshield™ MP1.25, SARMP1.25

Protects against handguns of medium power, such as the 9mm and Super 38 Automatics – any handgun with a muzzle energy of 380 to 460 foot-pounds.

### Acryshield™ HP1.25, SARHP1.25

Thin, light protection against high-power handguns, such as the .357 Magnum or other guns with a muzzle energy of 548 to 663 foot-pounds.

### Acryshield™ SP1.25

Ballistics protection against all handguns, including super power guns such as the .44 Magnum. Exceeds criteria within UL Level 3 requirements.

### Acryshield™ SMG1.25

Multiple shot protection from a submachine gun, such as a 9mm Uzi, and exceeding criteria within UL Level 6 requirements.

## TECHNICAL PROPERTIES

	ACRYSHIELD™ MP1.25, SARMP1.25 (UL 752 Level 1)	ACRYSHIELD™ HP1.25, SARHP1.25 (UL 752 Level 2)	ACRYSHIELD™ SP1.25 (UL 752 Level 3)	ACRYSHIELD™ SMG1.25 (UL 752 Level 6)
Protection	9 mm	.357 Magnum	.44 Magnum	Submachine Gun / Uzi
Optical Properties	Transmission > 90% Haze < 1%	Transmission > 90% Haze < 1%	Transmission > 85% Haze < 1.5%	Transmission > 85% Haze < 1.5%
UL Designation	752, Level 1	752, Level 2	752, Level 3	752, Level 6
Thickness	1.25"	1.378"	1.25"	1.25"
Weight	7.7 lbs. / sq. ft.	8.5 lbs. / sq. ft.	7.7 lbs. / sq. ft.	7.7 lbs. / sq. ft.
SAR Coating	Optional	Standard	Standard	Standard

## AVAILABLE SIZES

MP 1.25 LEVEL 1			HP 1.25 LEVEL 2			SP 1.25 LEVEL 3			SMG 1.25 LEVEL 6		
4' x 6'	5' x 6'	6' x 8'	4' x 6'	5' x 6'	6' x 8'	4' x 6'	5' x 6'	6' x 8'	4' x 6'	5' x 6'	6' x 8'
4' x 8'	5' x 8'	6' x 10'	4' x 8'	5' x 8'	6' x 10'	4' x 8'	5' x 8'	6' x 10'	4' x 8'	5' x 8'	6' x 10'

### 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)

69 Southfield Ave., Stamford, CT 06902 • 800-243-9002 • Fax: 800-955-0053 or 573-335-5661 • [www.spartech.com](http://www.spartech.com)

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