



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

Call 800-677-4338 or email marketing@spartech.com to order these products.

FOLLOW US:

Available Grades

UL 752 Ballistic Standards



Acryshield™ MP

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™ HP

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™ SP

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

Acryshield™ SMG

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

TECHNICAL PROPERTIES

	MP 1.25 LEVEL 1	HP 1.25 LEVEL 2	SP 1.25 LEVEL 3	SMG 1.25 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

Copyright ©2021, Spartech, LLC. Spartech makes no representations, guarantees, or warranties of any kind with respect to the information contained in this document about its accuracy, suitability for particular applications, or the results obtained or obtainable using the information. Some of the information arises from laboratory work with small-scale equipment which may not provide a reliable indication of performance or properties obtained or obtainable on larger-scale equipment. Values reported as "typical" or stated without a range do not state minimum or maximum properties; consult your sales representative for property ranges and min/max specifications. Processing conditions can cause material properties to shift from the values stated in the information. Spartech makes no warranties or guarantees respecting suitability of either Spartech's products or the information for your process or end-use application. You have the responsibility to conduct full-scale end-product performance testing to determine suitability in your application, and you assume all risk and liability arising from your use of the information and/or use or handling of any product. SPARTECH MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, either with respect to the information or product reflected by the information. This literature shall NOT operate as permission, recommendation, or inducement to practice any patented invention without permission of the patent owner.