POLYCAST®

PRODUCT BULLETIN

SPARTECH®

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.

Available Grades
UL 752 Ballistic Standards

POLYCAST®

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®S 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

MP1.25 LEVEL 1			HP1.25 LEVEL 2			SP1.25 LEVEL 3			SMG 1.25 LEVEL 6		
4' × 6'	5' × 6'	6' × 8'	4' × 6'	5' × 6'	6' × 8'	4' × 6'	5' × 6'	6' × 8'	4' × 6'	5' × 6'	6' × 8'
4' × 8'	5' × 8'	6' × 10'	4' × 8'	5' × 8'	6' × 10'	4' × 8'	5' × 8'	6' × 10'	4' × 8'	5' × 8'	6' × 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)

11650 Lakeside Crossing Ct. • Maryland Heights, MO 63146 • 800-677-4338 • **www.spartech.com**

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