



Polycast[®] Cell Cast Acrylic Bullet Resistant Sheet

Polycast[®] Cell Cast Acrylic 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 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 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 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

Available Grades

UL 752 Ballistic Standards



UL LEVEL 1 - POLYCAST MP 1.25 BR SHEET

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.

UL LEVEL 2 - POLYCAST HP 1.25 BR SHEET

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.

UL LEVEL 3 - POLYCAST SP 1.25 BR SHEET

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

UL LEVEL 6 - POLYCAST SMG 1.25 BR SHEET

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'



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