HOW TO SEPARATE THE GOOD GUYS FROM THE BAD GUYS.

WHY YOU NEED PROTECTION — NOW

There were 136 times as many armed bank robberies in the United States than there were approximately 30 years ago. 31% of all violent crimes result in fatalities. This year, there will be more robberies than the total of all violent crimes in the United States. When crime occurs, depending on how the victim feels, it can range from a few thousand dollars up to a million dollars.

The Only Proven Deterrent

Of all the modern security devices used by banks — including silent alarms, cameras, dye packs — bullet-resisting barriers are proven to be the only measure that deters crime before it happens.

WHAT IS “BULLET-RESISTANT” SHEET?

Underwriters’ Laboratories (UL L) defines “bullet-resisting” as: “protection against complete penetration, passage of fragments of projectiles, or (fragmentation) of the protective material to the degree that injury resulting from employees injured in robberies will total in the tens of millions of dollars. This year, Polycast — before you, your business, or one of your employees becomes a part of next year’s statistics.

WHY YOU NEED POLYCAST

When choosing a bullet-resistant sheet, the four characteristics most often considered are: adequate protection, weight, optical clarity, and cost. When all these factors are considered together, Polycast is superior to any other bullet-resistant material available. When you choose any product from the Polycast line, you’re getting the best.

ABRASION RESISTANCE

Polycast bullet resistant sheet is also available with a super abrasion resistant coating. Polycast SAR maintains 45 times the abrasion resistance of uncoated acrylic.

POLYCAST® is a leading manufacturer of high performance, all-out acrylic, sheet, rod, tube, and film, used in a variety of specialty and commercial applications. The company and its products have a worldwide reputation for quality and service in the specialty transparent market. Specialty applications include materials for aerospace canopies and windows, transparent bulletproof enclosures, and plastic optical components.

How to feel about POLYCAST BULLET-RESISTANT SHEET depends on which side you’re on.

Made in the USA

Because Polycast sheet can be easily cut, drilled, and curved, it can be formed to almost any shape. Because it’s so light, it can be configured as a free-standing wall.

Easy Installation for Any Application

Polycast is easy and inexpensive to install and provides superior protection anywhere money changes hands or valuables are on display.
**Typical Properties of Polycast® Sar™ HP 1.25 (UL Level 2)**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ballistic Protection</td>
<td>357 Magnum</td>
<td>UL 752</td>
</tr>
<tr>
<td>Optical Properties</td>
<td>98%</td>
<td>ASTM D2843</td>
</tr>
<tr>
<td>Smoke Density</td>
<td>Max: 65%</td>
<td>ASTM D4802</td>
</tr>
<tr>
<td>Mechanical Properties</td>
<td>1.37 lbs</td>
<td>ASTM D2843</td>
</tr>
<tr>
<td>Transparency</td>
<td>0.2 to 0.3 (slight change)</td>
<td>Taber 100 cycles</td>
</tr>
<tr>
<td>Abnormal Remission</td>
<td>1 (slight change)</td>
<td>Taber 100 cycles</td>
</tr>
<tr>
<td>Able to Fabricate</td>
<td>1800 psi</td>
<td>ASTM D1921</td>
</tr>
<tr>
<td>Flammability</td>
<td>480,000 psi</td>
<td>ASTM D1003</td>
</tr>
<tr>
<td>Haze</td>
<td>&lt;1.5%</td>
<td>ASTM D1003</td>
</tr>
<tr>
<td>Tensile Strength (impact)</td>
<td>6500 psi</td>
<td>ASTM D638</td>
</tr>
<tr>
<td>Flex Modulus of Resilience</td>
<td>13 lbs</td>
<td>ASTM D790</td>
</tr>
<tr>
<td>Yellowness Index</td>
<td>&lt;0.5%</td>
<td>ASTM D638</td>
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<tr>
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</tr>
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<td>ASTM D638</td>
</tr>
<tr>
<td>Thermal Breakdown Temperature</td>
<td>-26° F</td>
<td>ASTM D638</td>
</tr>
<tr>
<td>Maximum Continuous Service Temperature</td>
<td>445° C (840° F)</td>
<td></td>
</tr>
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**Typical Properties of Polycast® Sar™ SP 1.25 (UL Level 3)**

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<tr>
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<td>480,000 psi</td>
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<tr>
<td>Haze</td>
<td>&lt;1.5%</td>
<td>ASTM D638</td>
</tr>
<tr>
<td>Thermal Breakdown Temperature</td>
<td>-40° C</td>
<td>ASTM D638</td>
</tr>
<tr>
<td>Maximum Continuous Service Temperature</td>
<td>465° C (870° F)</td>
<td></td>
</tr>
</tbody>
</table>

**MP1.25**

- Level #1
- Maximum Continuous Service Temperature: 170° F
- Minimum Continuous Service Temperature: -26° F (lowest temperature tested for bullet-resistance)
- Ballistic protection: 357 Magnum
- Optical Properties: 98%
- Smoke Density: Max: 65%
- Mechanical Properties: 1.37 lbs
- Maximum Continuous Service Temperature: 465° C (870° F)
- Available in Tints

**HP1.25**

- Level #2
- Maximum Continuous Service Temperature: 170° F
- Minimum Continuous Service Temperature: -26° F (lowest temperature tested for bullet-resistance)
- Ballistic protection: 357 Magnum
- Optical Properties: 98%
- Smoke Density: Max: 65%
- Mechanical Properties: 1.37 lbs
- Maximum Continuous Service Temperature: 465° C (870° F)
- Available in Tints

**SP1.25**

- Level #3
- Maximum Continuous Service Temperature: 170° F
- Minimum Continuous Service Temperature: -26° F (lowest temperature tested for bullet-resistance)
- Ballistic protection: 44 Magnum
- Optical Properties: 98%
- Smoke Density: Max: 65%
- Maximum Continuous Service Temperature: 465° C (870° F)
**TYPICAL PROPERTIES OF POLYCAST® SAR™ MP1.25 (UL LEVEL 1)**

**Code Section and Standards**
- Meets the test requirements of Building Code class C22.
- Dade County Approval, Federal Specification L-P-391D+
- U.L. Level 1 requirements.

**Mechanical Properties**
- Auto Ignition Temperature: 465° C (870° F)
- Max: 8%; Rating: 5%
- 1.2 in/min
- 9,500 psi
- 300,000 psi
- 4,000,000 psi
- 20,000,000 psi

**Optical Properties**
- Initial haze: <1.0%
- Transmission: >90%
- Yellowness Index: <1.0%

**Flammability and Smoke**
- Smoke Density: 0.2 to 2.0 (% haze change)
- E-180 cycles

**Research**
- American Research
- Thermal Transport
- Flex Modulus
- Flexibility
- Modulus

**Service Environments**
- 32°F to 122°F (4°C to 50°C)
- 100% Relative Humidity

**Maximum Continuous Service Temperature**
- 170°F (77°C)
- Max: 8%; Rating: 5%

**Physical Properties**
- Value
- MP1 .25
- MP1 .25, Level 1
- MP1 .25, Level 2
- MP1 .25, Level 3
- MP1 .25, Super Abrasion Resistant Coating

**Test Method**
- Value
- ASTM D1925
- ASTM D2843
- ASTM D638
- ASTM D638
- ASTM D638
- ASTM D638
- ASTM D1003
- Taber 100 cycles

**TYPICAL PROPERTIES OF POLYCAST® SAR™ HP1.25 (UL LEVEL 2)**

**Code Section and Standards**
- Meets the test requirements of Building Code class C22.
- Dade County Approval, Federal Specification L-P-391D+
- U.L. Level 2 requirements.

**Mechanical Properties**
- Auto Ignition Temperature: 465° C (870° F)
- Max: 65%; Rating: 49%
- 1.2 in/min
- 400,000 psi
- 300,000 psi
- 4,000,000 psi
- 20,000,000 psi

**Optical Properties**
- Initial haze: <1.0%
- Transmission: >85%
- Yellowness Index: <1.5%

**Flammability and Smoke**
- Smoke Density: 0.2 to 2.0 (% haze change)
- E-180 cycles

**Research**
- American Research
- Thermal Transport
- Flex Modulus
- Flexibility
- Modulus

**Service Environments**
- 32°F to 122°F (4°C to 50°C)
- 100% Relative Humidity

**Maximum Continuous Service Temperature**
- 170°F (77°C)
- Max: 8%; Rating: 5%

**Physical Properties**
- Value
- HP1 .25
- HP1 .25, Level 2
- HP1 .25, Level 3
- HP1 .25, Super Abrasion Resistant Coating

**Test Method**
- Value
- ASTM D1925
- ASTM D2843
- ASTM D638
- ASTM D638
- ASTM D638
- ASTM D638
- ASTM D1003
- Taber 100 cycles

**TYPICAL PROPERTIES OF POLYCAST® SAR™ SP1.25 (UL LEVEL 3)**

**Code Section and Standards**
- Meets the test requirements of Building Code class C22.
- Dade County Approval, Federal Specification L-P-391D+
- U.L. Level 3 requirements.

**Mechanical Properties**
- Auto Ignition Temperature: 465° C (870° F)
- Max: 74%; Rating: 44%
- 1.2 in/min
- 400,000 psi
- 300,000 psi
- 4,000,000 psi
- 20,000,000 psi

**Optical Properties**
- Initial haze: <1.0%
- Transmission: >85%
- Yellowness Index: <1.5%

**Flammability and Smoke**
- Smoke Density: 0.2 to 2.0 (% haze change)
- E-180 cycles

**Research**
- American Research
- Thermal Transport
- Flex Modulus
- Flexibility
- Modulus

**Service Environments**
- 32°F to 122°F (4°C to 50°C)
- 100% Relative Humidity

**Maximum Continuous Service Temperature**
- 170°F (77°C)
- Max: 8%; Rating: 5%

**Physical Properties**
- Value
- SP1 .25
- SP1 .25, Level 3
- SP1 .25, Super Abrasion Resistant Coating

**Test Method**
- Value
- ASTM D1925
- ASTM D2843
- ASTM D638
- ASTM D638
- ASTM D638
- ASTM D638
- ASTM D1003
- Taber 100 cycles

70 Carlisle Place • Stamford, CT 06902 • Phone: 1-800-243-9002 or (203) 327-6010 • Fax: 1-800-631-4005 • International Fax: (203) 323-2925

For assistance, please call 1-800-243-9002.
### Typical Properties of Polycast® SAR® MP 1.25 (UL Level 1)

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<tr>
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</thead>
<tbody>
<tr>
<td>Ballistic Protection</td>
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<td>UL 752</td>
</tr>
<tr>
<td>Optical Properties</td>
<td>Must meet UL 752</td>
<td></td>
</tr>
<tr>
<td>Flammability</td>
<td>Must meet UL 752</td>
<td></td>
</tr>
<tr>
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<td>260° F (lowest temperature tested for bullet resistance)</td>
<td></td>
</tr>
<tr>
<td>Maximum Continuous Service Temperature</td>
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### Typical Properties of Polycast® SAR® MP 1.25 (UL Level 2)

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**Polycast** is recognized worldwide for its commitment to customer service and technical assistance. Please feel free to contact Polycast at any stage, from design and specification to fabrication, installation and care. For assistance, please call 1-800-243-9002 or (203) 327-6010. For International Fax: (203) 323-2925.
HOW TO SEPARATE THE GOOD GUYS FROM THE BAD GUYS.

WHY YOU NEED PROTECTION — NOW

There were 136 times as many armed bank robberies in the United States than there were approximately 50 years ago. 31% of all violent crimes committed last year resulted from employees injured in robberies. This year, there will be one convenience-store robbery for every two convenience stores in the country. This year, liability lawsuits resulting from an employee injured in a robbery will total in the tens of millions of dollars.

THE ONLY PROVEN DETERRENT

Of all the modern security devices used by banks — including silent alarms, cameras, dye packs — bullet-resisting barriers have been proven to be the only measure that deter crime before it happens.

WHY YOU NEED POLYCAST

When choosing a bullet-resistant sheet, the four characteristics most often considered are: adequate protection, weight, optical clarity, and cost. When all these factors are considered together, Polycast is superior to any other bullet-resistant material available. When you choose any product from the Polycast line, you’re getting the best.

ABBREVIATION RESISTANCE

Polycast bullet resistant sheet is also available with a super abrasion resistant coating. Polycast SAR maintains 45 times the abrasion resistance of uncoated acrylic.

SUPERIOR OPTICAL CLARITY

Crystal-clear, Polycast transmits significantly more light than bullet-resistant glass or polycarbonate. It is attractive in any environment, and will maintain its beauty over time.

LIGHTER WEIGHT

Polycast weighs 48% less than glass with the same U.L. rating, and slightly less than polycarbonate offering the same protection.

MORE DESIGN FLEXIBILITY

Because Polycast sheet can be easily cut, drilled, and curved, it can be formed to almost any shape. Because it’s so light, it can be configured as a free-standing wall.

EASY INSTALLATION FOR ANY APPLICATION

Polycast is easy and inexpensive to install and provides superior protection anywhere money changes hands or valuables are on display.

W H O L E S A L E B A N K

Wells Fargo Bank

EASY INSTALLATION FOR ANY APPLICATION

Polycast crystal-clarity provides a beautiful environment that makes customers feel safe, not confined.

Polycast also provides high-impact resistance that foil’s smash-and-grab thieves.

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POLYCAST PORTRAIT OF ALABAMA

Polycast is a leading manufacturer of high performance, bullet-resistant acrylic sheet, sheet, rod, tubes used in a variety of specialty and commercial applications. The company and its products have a worldwide reputation for quality and success in the specialty transparent market. Specialty applications include materials for aerospace canopies and windows, transparent ballistic enclosures, and plastic optical components.

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MORE DESIGN FLEXIBILITY

Polycast will not turn yellow, haze, degrade or turnbrittle when exposed to the elements. And it can be cut to any size using standard tools without chipping or cracking. It can also be formed into curved shapes, and the edges can be polished to a beautiful shine finish, unlike polycarbonate, where edges turn black when polished. This is for those reasons that Polycast bullet-resistant sheet is the clear favorite when it comes to manufacturing and polishing.

Why YOU FEEL ABOUT POLYCAST BULLET-RESISTANT SHEET

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HOW YOU FEEL ABOUT POLYCAST BULLET-RESISTANT SHEET DEPENDS ON WHICH SIDE YOU'RE ON.

Polycast is a leading manufacturer of high performance, safe-out Bulletin sheet, sheet, and bullet-resisting barrier — bullet-resistant barriers, bullet-resistant sheet, bullet-resistant glass, bullet-resistant film, bullet-resistant windows, bullet-resistant enclosures, and bullet-resistant materials.

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