

AMGARD SR SCRATCH-RESISTANT ACRYLIC SHEET

ANTIMICROBIAL

AMGARD SR scratch-resistant acrylic sheet is formulated with silver ion antimicrobial technology that protects the sheet surface from microorganism growth and remains active for the entire life of the product. The proprietary coating system provides enhanced abrasion resistance to acrylic's inherent excellent clarity. The antimicrobial coating also adds exceptional resistance to common disinfecting cleaning chemicals. The result is a high optical quality and tough antimicrobial sheet that can stand up to today's demanding safety barrier environments.

- » Inhibits microbe surface degradation
- » Independent laboratory tested
- » Abrasion resistant
- » Chemical resistant
- » Half the weight of glass
- » High clarity
- » Easy to fabricate and clean

APPLICATIONS

Protective barriers, office partitions, safety enclosures, interior windows and glazing

AMGARD SR is formulated with silver ion antimicrobial technology to protect the sheet's surface. It is not designed to prevent the transmission of any disease or infectious agent.

Typical Properties*

| Property | Test Method | Units | Values |
|--|-------------|----------|------------------------|
| PHYSICAL | | | |
| Specific Gravity | ASTM D792 | - | 1.19 |
| Light Transmission | ASTM D1003 | % | 92 |
| Taber Abrasion @ 100 Cycles, Delta Haze CS-10F Wheel @ 500 g load | ASTM D1044 | % | <5 |
| Pencil Hardness | ASTM D3363 | - | >4H |
| MECHANICAL | | | |
| Tensile Strength | ASTM D638 | psi | 11,030 |
| Tensile Modulus of Elasticity | ASTM D638 | psi | 490,000 |
| Flexural Strength | ASTM D730 | psi | 17,000 |
| THERMAL | | | |
| Coefficient of Thermal Expansion | ASTM D696 | in/in/°F | 3.0 x 10 ⁻⁵ |
| Deflection Temperature @ 264 psi (1.8 Mpa) | ASTM D648 | °F | 203 |

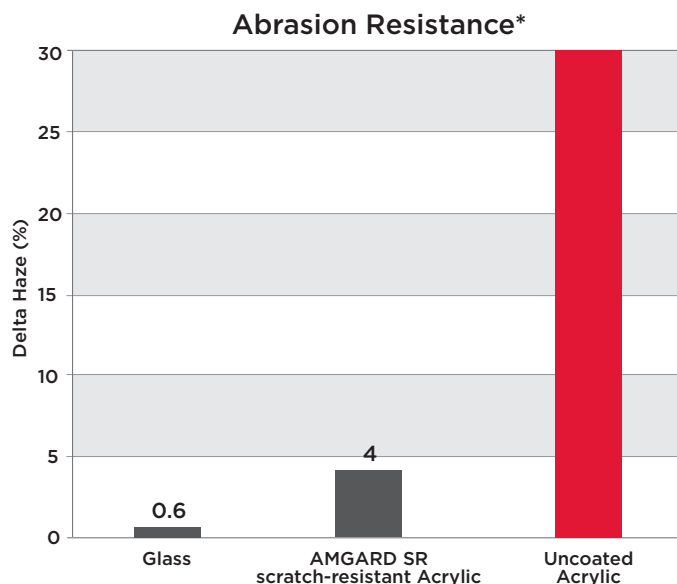
*Typical properties are not intended for specification purposes

AMGARD SR SCRATCH-RESISTANT ACRYLIC SHEET

Acetone

| | |
|-------------------------|--------------------|
| | No change to sheet |
| Ethyl acetate | No change to sheet |
| Toluene | No change to sheet |
| Amyl acetate | No change to sheet |
| Hydrogen peroxide (3%) | No change to sheet |
| Ethanol (100%) | No change to sheet |
| Isopropyl alcohol (99%) | No change to sheet |

16 hour "watch glass" covered surface exposure,
CSA B45.5 / IAPMO Z124, clause 5.15



*Taber Abrasion per ASTM D 1044, 100 cycles using CS-10F wheels at 500 g load

AMGARD CLEANING / RUBBING RESISTANCE

| Cleaner | Coating Appearance | |
|--|--------------------|--------------------|
| | Microfiber Cloth | Paper Towel |
| Clorox® Splashless® Bleach | No change to sheet | No change to sheet |
| Clorox® Plus Tilex® Mold & Mildew Remover | No change to sheet | No change to sheet |
| CLR® Bath & Kitchen Foaming Action Cleaner | No change to sheet | No change to sheet |
| Fantastik® Disinfectant Multi-Purpose Cleaner | No change to sheet | No change to sheet |
| Lysol® Power Bathroom Cleaner | No change to sheet | No change to sheet |
| Mean Green® Super Strength Cleaner & Degreaser | No change to sheet | No change to sheet |
| Scrubbing Bubbles® Mega Shower Foamer | No change to sheet | No change to sheet |
| Scrubbing Bubbles® Foaming bleach | No change to sheet | No change to sheet |
| Simple Green® All-Purpose Cleaner | No change to sheet | No change to sheet |
| Windex® | No change to sheet | No change to sheet |

Taber linear abraser, 900 cycle, 600 gram load; Microfiber or Paper Towel saturated with cleaner

Solvent and cleanser resistance applies to coated sheet surface only. Care must be taken to not expose uncoated sheet edges to harsh chemicals and cleaners. Do not use scrapers, squeegees, razors or other sharp instruments that may scratch through the coating.

These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use are beyond our control. We recommend that the prospective user determines the suitability of our materials and suggestions before adopting them on a commercial scale.

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PLASKOLITE

400 Nationwide Blvd, Suite 400
Columbus, OH 43215
800.848.9124 • Fax: 877.538.0754
plaskolite@plaskolite.com
www.plaskolite.com

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