

# Abrasion Resistant Products

ACRYLITE® AR acrylic sheet

ACRYLITE® GAR acrylic sheet



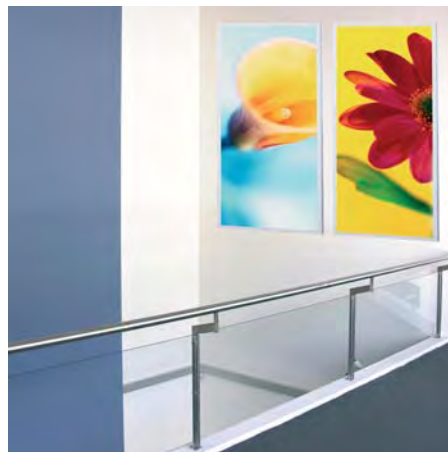
# A history of innovation, quality and service

For more than three decades Evonik Cyro LLC has offered high quality, innovative acrylic products to the North American market. ACRYLITE® AR and ACRYLITE® GAR abrasion resistant acrylic sheet is the result of dedicated research and development and the most advanced manufacturing and coating technologies.

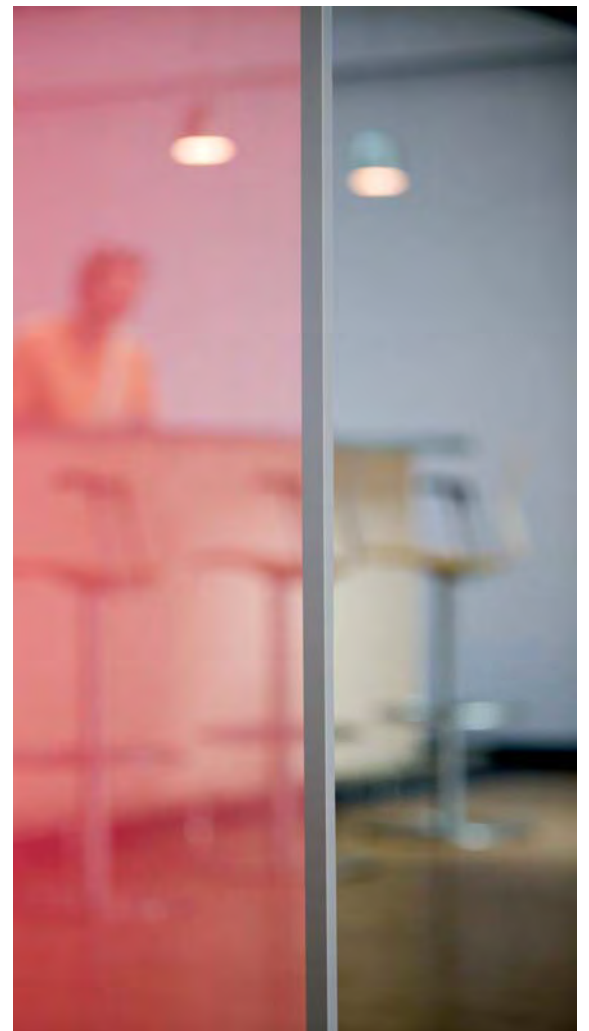
Evonik Cyro manufactures ACRYLITE AR and ACRYLITE GAR sheet in our state-of-the-art facility using a high quality, proprietary coating. The added protection of an abrasion resistant coating helps to significantly extend the service life of products.

Our sales specialists and customer service representatives can assist with your requests including custom projects. Our Technical Service Center, staffed with experienced engineers, can answer all of your performance or fabrication questions. Our multi-site warehousing and distribution system allows for fast delivery to meet project deadlines.

ACRYLITE abrasion resistant sheet products are covered by the same commitment to service as are all Evonik Cyro products.



Balcony glazing



Room partition

# Endless design possibilities

ACRYLITE AR and ACRYLITE GAR sheet meet a wide range of application requirements



Tabletop

## Furniture and interiors

- ACRYLITE AR and GAR sheet are ideal for panels in furniture, partitions, balcony glazing, table tops and framed artwork
- Increase design possibilities with ACRYLITE AR and GAR sheet in clear or custom colors

## Picture framing, exhibition and museum vitrines

- ACRYLITE AR and GAR sheet are lightweight with less risk of breakage than glass
- Ideal for protecting hanging exhibits or temporary exhibitions on tour
- Increased safety for high-traffic areas and children's exhibits
- Available with UV protection to avoid damage from natural and artificial UV light



Museum case



Furniture



Picture framing



Marker board



P-O-P/store fixture

### Security glazing and machine guards

- Increase the longevity of machine guards and high traffic work areas with ACRYLITE AR and GAR sheet
- Given its optical clarity, ACRYLITE GAR is perfect for window and interior architectural glazing
- ACRYLITE GAR is also available as ACRYLITE BR® (Bullet Resistant) acrylic sheet with UL 752-Level I and II approvals

### P-O-P/store fixtures, signs and marker boards

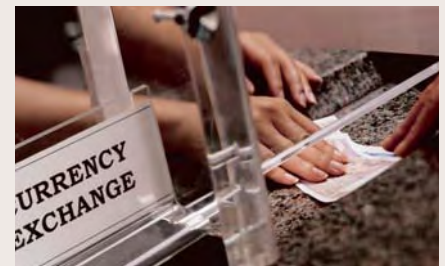
- Excellent for interior signs, cosmetic displays and marker board applications because of chemical resistance and ease of removal and re-use
- Abrasion resistant coating protects against every-day use and extends product life while maintaining premium appearance
- Permanent motifs (e.g. maps) can be silk screened on the uncoated side

### Electronics displays and instrumentation

- Offerings in clear, tinted, non glare or UV protection, provide unlimited options for instrumentation and displays
- Lightweight with excellent optical quality, transparency and abrasion resistance



Machine guard



Security glazing



Instrumentation cluster panel



Electronic display

## Clarity, durability and versatility...



Abrasion resistant coated mirror

### ACRYLITE AR and GAR acrylic sheet

ACRYLITE AR acrylic sheet is a continuously manufactured acrylic with a proprietary abrasion resistant coating. Manufactured using a cell cast process, ACRYLITE GAR acrylic sheet is made to exacting standards and offers unsurpassed clarity and brilliance.

Both ACRYLITE AR and GAR sheet offer 40 times greater resistance to marring and chemical attack than uncoated acrylic. They are ideal for demanding applications where frequent handling, heavy traffic and regular cleaning are commonplace. ACRYLITE AR and GAR sheet are available with coating on one or both sides. While two-side coated sheet provides maximum protection, one-side coated sheet offers economical advantages for applications where only one side of the sheet is exposed.



Museum vitrine

ACRYLITE AR and ACRYLITE GAR are specially coated acrylic sheets offering:

- Excellent abrasion and chemical resistant properties. They are 40 times more mar resistant than standard uncoated acrylic sheet
- Durability that makes them ideal for applications subject to frequent public contact where high resistance to cleaning agents or other substances is needed
- Brilliance thanks to outstanding optical quality and transparency. They are crystal clear and deliver 92% light transmission
- Half the weight of glass and twice the impact strength, offering less risk of breakage
- Versatility and endless design possibilities

The proprietary abrasion resistant coating can be added to a variety of ACRYLITE sheet specialty grades including:

- ACRYLITE® EndLighten acrylic sheet offers an abrasion resistant surface for your edge-lit applications
- ACRYLITE® Reflections mirror acrylic sheet is ideal for any mirror application thanks to its light weight and resistance to heavy cleaning and chemicals
- ACRYLITE® AR OP-3 acrylic sheet combines abrasion and chemical resistance with 98% ultraviolet light filtering
- ACRYLITE® AR P-99 matte finish acrylic sheet is available when your application calls for minimizing glare
- Color your application with ACRYLITE AR sheet in a variety of colors, opaque or transparent, including glass green, opaque white for marker boards and a variety of solar tints

## Cleaning

The following brand name cleaners have been tested and found to work well on the coated surface: Fantastik® household cleaner, Mr. Clean® household cleaner, Formula 409® household cleaner, Top Job® household cleaner, Glass Plus® cleaner, and Windex® window cleaner. Caution: Some of these cleaners may attack the uncoated side of the sheet.

A liquid detergent and water solution is recommended for cleaning the surface of ACRYLITE AR or ACRYLITE GAR abrasion resistant sheet products. It is not recommended to use abrasive cleaners on the sheet surface.

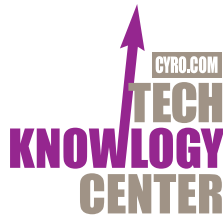
## Product offering

- Range from .050" - .944" (1.2 – 24 mm)
- Sizes: 48" x 96" (1,220 x 2,438 mm) 60" x 96" (1,525 x 2,438 mm) 72" x 96" (1,829 x 2,438 mm)
- Custom sizes available up to 72" x 120" (1,829 x 3,048 mm)
- Cut to size fabrication available upon request

Line bending or thermoforming ACRYLITE AR or GAR sheet is not recommended. For additional technical information including weathering and cementing, visit our TechKnowlogy Center.

## Technical support

Visit the TechKnowlogy Center at [www.cyro.com](http://www.cyro.com) where visitors have immediate access to FAQs, technical information, tips, and hundreds of other facts about acrylic sheet products.



## Code approval

ACRYLITE AR and ACRYLITE GAR sheet meet the requirements of the following codes and regulations:

- ANSI Z 97.1 for use as Safety Glazing Materials Used in Buildings
- ANSI Z26.1, AS-4, 5, 6 & 7 for Safety Glazing Materials for Glazing Motor Vehicles
- Uniform Building Codes for use as a Light Transmitting Plastic:
  - See BOCA Evaluation Services, Inc., Research Report # 94-30
  - ICBO Evaluation Service, Inc. Evaluation Report # 3715-CC2 Classification (ACRYLITE AR sheet, ACRYLITE GAR sheet)
  - SBCCI PST & ESI Evaluation Report # 95112A
  - City of Los Angeles, Research Report RR 24392
  - Wisconsin Material Approval, Approval # 950043-L
- Consumer Products Safety Commission, Safety Standard for Architectural Glazing Materials, 16CFR 1201, Categories I & II
- UL Recognized Component, File # E54671: (ACRYLITE AR sheet, ACRYLITE GAR sheet)
  - UL Flammability Ratings: HB in all thicknesses.

ACRYLITE BR sheet is UL 752-Level I and II approved.

**Fire precautions:** ACRYLITE AR acrylic sheet and ACRYLITE GAR acrylic sheet are combustible thermoplastics. Precautions should be taken to protect these materials from flames and high heat sources. ACRYLITE AR and GAR sheets usually burn rapidly to completion if not extinguished. The products of combustion, if sufficient air is present, are carbon dioxide and water. However, in many fires sufficient air will not be available and toxic carbon monoxide will be formed, as it will when other common combustible materials are burned. We urge good judgment in the use of these versatile materials and recommend that building codes be followed carefully to assure they are used properly.

**Important:** The information and statements contained herein are not to be taken as warranty or representation for which we assume legal responsibility nor as permission, inducement or recommendation to practice any patented invention without a license. The information is offered solely for your consideration, investigation and verification. Users should perform their own testing and verification to determine the applicability and suitability of the information and any products for their particular purpose.

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