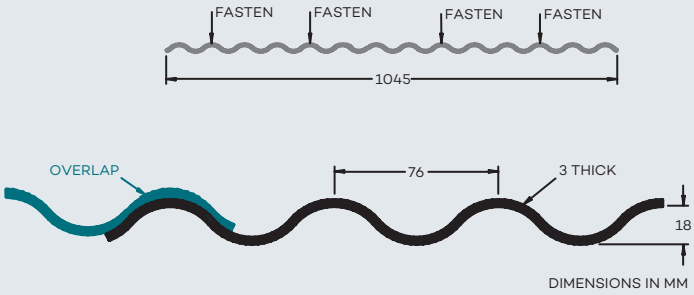
ACRYLITE®

ACRYLITE® Resist
Wave Profile Acrylic Sheet



Product

ACRYLITE® Resist wave profile is a light transmitting, heat-insulating and highly weather-resistant sheet made of impact-modified acrylic (polymethyl methacrylate, PMMA) polymer.

Features and Benefits

- Extraordinary clear sheet is UV-resistant that will not yellow or degrade over time.
- High light transmission and brilliance.
- Excellent protection against harmful UV radiation.
- Quick and easy to fabricate and install using simple tools.
- Can be point fastened. Special weatherseal calottes and fasteners are available.
- High impact resistance prevents damage during transportation and installation.
- Thicker than many other corrugated sheets resulting in high inherent rigidity and load-bearing capacity.
- Distinct and stylish appearance.
- Available in various colors and textures; also available as ACRYLITE® Heatstop wave profile sheet.

Warranties

Non-prorated, full replacement 30 year non-yellowing (colorless products only), 10 year light transmission and 10 year hail warranty. For details see published warranty.

Applications

Suitable for sloped and vertical applications including the following:

- Patio / Deck Covers
- Pool & Spa Enclosures
- Porch Enclosures
- Windbreaks
- Carports
- Canopies
- Decorative Panels
- Partition Walls

Fabrication and Installation

Please refer to *ACRYLITE® Wave Profile Installation Guidelines* for further details.

Product Specifications

ACRYLITE® Resist wave profile is available to ship from our US warehouse and from our production facility in Germany.

Color	Length	Width	Thickness
Clear Smooth Clear Prismatic White Smooth Grey Smooth Bronze Prismatic Graphite Grey Prismatic*	up to 16 ft	41.14" (1045 mm)	3 mm

**Not all colors are stocked at all times. Please contact us for more information on availability and lead times.*

POLYVANTIS

ACRYLITE® Resist
Wave Profile Acrylic Sheet

Properties

Light transmission (TD65)	
Clear smooth · 0A001 · 3 mm	up to 91 %
Clear prismatic · 0A001W · 3 mm	up to 91 %
White smooth · W1621 · 3 mm	up to 72 %
Grey smooth · 7RW01 · 3 mm	up to 47 %
Bronze prismatic · 8RS01W · 3 mm	up to 55 %
Graphite grey prismatic · 7RW02 · 3 mm	up to 66 %
Other technical data	
Expansion due to heat and moisture	6mm/m (1/16"/ft)
Max. service temperature without load	70 ° C (160 ° F)
Weighted sound reduction index	22 dB
Area weight	0.7 lb/ft2
ASTM D-365 (Rate of Burn)	C2/CC2
ASTM D-1929 (Self Ignition Temp)	750 ° F
ASTM D-2843 (Smoke Density Rating)	3.8 %
CAN/ULC S102.2	< 150 Flame Spread Classification
DIN 4102	B2

Values are approximate.

Enviromental Sustainability

ACRYLITE® Resist wave profile sheets are built to last using environmentally sound manufacturing processes in facilities that have received ISO-14001 environmental certification. The sheet has been proven to perform consistently over decades of use in all types of climates throughout the world. ACRYLITE® acrylic's long service life means less replacement costs when compared to inferior glazing materials that must be replaced more frequently, often after just a few years of use. In addition, if the time does come for replacement, ACRYLITE® can be recycled in an environmentally friendly manner.

FIRE BEHAVIOR

The fire behavior of ACRYLITE® is rated as C2 or CC2 according to ASTM D-635. ACRYLITE® burns almost entirely without smoke according to DIN4102 and ASTMD-2843 and is easily extinguished. The smoke gases produced by ACRYLITE® are neither acutely toxic according to DIN 53436, nor corrosive according to DIN VDE 0482-267.

LOAD BEARING CAPACITY

Due to its excellent rigidity and inherent strength, large areas can be glazed quickly and efficiently. ACRYLITE® Resist wave profile with pointwise fastening, require cross-members at the spacings shown in the following table.

ACRYLITE® Resist Wave Profile Installed at full width of 1,045 mm – 41.14"	
Load	**Support Spacing**
(lb/ft2)	(in)
4	67
8	47
12	40
15	31
20	29
25	26
30	23
35	18
40	14

Please refer to *ACRYLITE® Wave Profile Installation Guidelines* for further details. Refer to local building codes to determine the applicability of these values to specific applications.

ACRYLITE® Resist
Wave Profile Acrylic Sheet

POLYVANTIS
Sanford LLC

1796 Main Street
Sanford, ME 04073
USA

www.polyvantis.com
www.acrylite.co

Semi-finished polymethyl methacrylate (PMMA) products from POLYVANTIS are sold on the European, Asian, African and Australian continents under the registered trademark PLEXIGLAS®, in the Americas under the registered trademark ACRYLITE®, both owned by Röhm GmbH, Darmstadt, or its affiliates.

Fire Precautions
ACRYLITE® sheet is a combustible thermoplastic. Precautions should be taken to protect this material from flames and high heat sources. ACRYLITE® sheet usually burns 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 judgement in the use of this versatile material and recommend that building codes be followed carefully to assure it is used properly.

Compatibility
Like other plastic materials, ACRYLITE® sheet is subject to crazing, cracking or discoloration if brought into contact with incompatible materials. These materials may include cleaners, polishes, adhesives, sealants, gasketing or packaging materials, cutting emulsions, etc. See the Tech Briefs in this series for more information, or contact your ACRYLITE® sheet Distributor for information on a specific product.