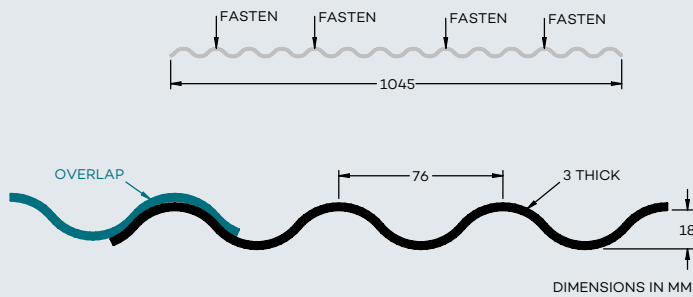




## ACRYLITE® Heatstop Wave Profile Acrylic Sheet



### Product

ACRYLITE® Heatstop high impact wave profile is an IR-(infrared) reflecting, heat insulating and highly weather-resistant sheet made of impact-modified acrylic (polymethyl methacrylate, PMMA) polymer. The Heatstop component is uniformly distributed throughout the entire sheet.

### Features and Benefits

- Reflects IR radiation resulting in reduced heat build up
- Solar energy is reduced up to 75%
- Transmitted light results in a cool blue white interior sheet color, making a very pleasant and bright environment beneath the glazing
- 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 recommended
- High impact resistance prevents damage during transportation and installation
- Thicker than many other corrugated sheets resulting in high inherent rigidity and load-bearing capacity

### Warranties

Non-prorated, full replacement 10 year light transmission and 10 year hail warranty. For details see published warranty.

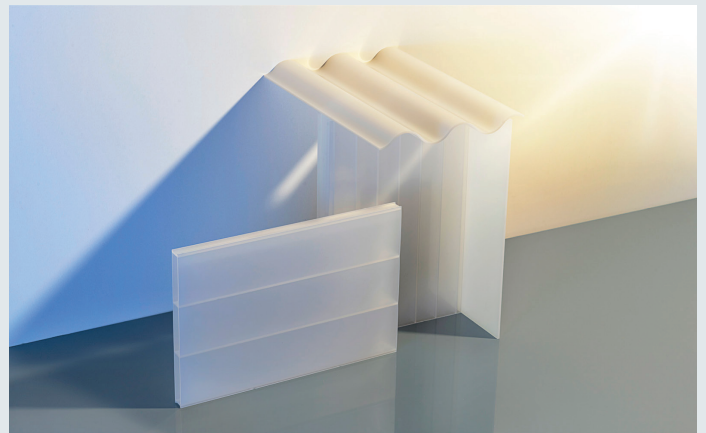
### Applications

Suitable for sloped and vertical applications including the following:

- Patio & Deck Covers
- Sunrooms & Winter Gardens
- Pool & Spa Enclosures
- Windbreaks
- Carports
- Canopies
- Decorative Panels
- Partition Walls

### Fabrication and Installation

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





# ACRYLITE® Heatstop Wave Profile Acrylic Sheet

## Product Specifications

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

Color	Length	Width	Thickness
Cool Blue White	up to 16'	41.14" (1045 mm)	3 mm

Thanks to its special technology, ACRYLITE® Heatstop high impact wave profile effectively reduces the sun's heat radiation. The color impression may change depending on viewing angle and lighting conditions.

## Properties

Light transmission (TD65)	
Cool Blue White - WZ006 - 3mm	up to 24 %
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/ft <sup>2</sup>
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.

## Environmental Sustainability

ACRYLITE® Heatstop high impact 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 ASTM D-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® Heatstop high impact wave profile with pointwise fastening, require cross-members at the spacings shown in the following table.

ACRYLITE® Heatstop Wave Profile Installed at full width of 1,045 mm – 41.14"	
Load (lb/ft <sup>2</sup> )	Support Spacing (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® Heatstop Wave Profile Acrylic Sheet

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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.

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