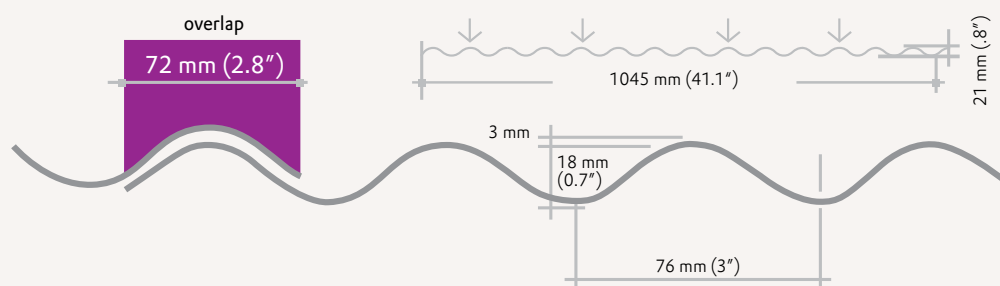


3 mm ACRYLITE® Resist high impact acrylic wave profile



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

3 mm ACRYLITE® Resist high impact acrylic wave profile is suitable for overhead and vertical installation applications including:

- Patio Covers
- Carports
- Porches
- Verandas
- Façades
- Windbreaks
- Canopies
- Lighting Panels
- Decorative Panels

Advantages of 3 mm ACRYLITE® Resist high impact acrylic wave profile

- Extremely UV-resistant, with a 30-year guarantee against yellowing.
- Offer excellent protection against harmful UV radiation.
- Safe and easy to handle.
- Guaranteed to be resistant for 10 years to hailstones with a kinetic energy of 1 joule.
- Much thicker than many other corrugated sheets and therefore offer high inherent rigidity and loadbearing capacity resulting in much less deflection under snow load, making them safer and more attractive.

- Excellent light transmission and brilliance.
- Distinct, stylish appearance.
- Quick and easy to fabricate and install using simple tools. Can be point fastened. Special weatherseal calottes and fasteners available.
- They are available in clear smooth, clear textured, clear prismatic, grey smooth, bronze textured, bronze prismatic and white. Also available in ACRYLITE® Heatstop.

Warranties

Non-prorated, full replacement 30 year non-yellowing, 10 year light transmission and 10 year hail warranties.

Environmental Sustainability

ACRYLITE® high impact acrylic wave profile is built to last using environmentally sound manufacturing processes in facilities that have received ISO-14001 environmental certification. In addition, if the time does come for replacement, ACRYLITE® can be recycled in an environmentally friendly manner.

Technical Data (Typical values)

	Light Transmittance D65
Clear Smooth (0A001)	90%
Clear Textured (0A001)	88%
Clear Prismatic (0A001)	81%
White (W1621)	72%
Sunglass Grey (7RW01)	45%
Bronze Textured (8A001)	75%
Bronze Prismatic (8A001)	55%
UV Transmission	blocking
U-value	6.02 W/m ² K (1.06 BTU/hr•ft ² •°F)
R-value	1.06°F/BTU•hr•ft ²
Coefficient of Heat Expansion (α)	0.08 mm/m °C (0.00004 in/in/°F)
Expansion Due to Heat & Moisture	6 mm/m (1/16" /ft)
Approximate Area Weight	3.3 Kg/m ² (0.7 lb/ft ²)
Thickness	3 mm (1/8")
Rib Spacing	N/A
Width	1045 mm (41 1/8")
Length	up to 4900 mm (16 ft)
Weighted Sound Reduction Index	22 dB
Maximum Service Temperature	70°C (160°F)
ASTM D-635	C2/CC2
ASTM D-1929 (Self Ignition Temp)	(750°F)
ASTM D-2843 (Smoke Density Rating)	3.8%
CAN/ULC S102.2	< 150
DIN 4102	normal combustability, B2

Values are approximate.

Fire Behaviour

- 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

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

Support Spacing Chart

3 mm ACRYLITE® Resist high impact acrylic wave profile width as delivered 1045 mm (41 1/8")			
Load		Support Spacing	
[N/m ²]	(lb/ft ²)	[m]	(in)
200	4.2	1.70	67
400	8.4	1.20	47
600	12.6	1.00	40
800	16.8	.80	31
1000	21	.75	29
1200	25.2	.65	26

ACRYLITE® is a registered trademark of Evonik Cyro LLC in the Americas. These same products are manufactured and marketed under the PLEXIGLAS® trade name on the European, Asian, African and Australian continents.

Certified to DIN EN ISO 9001 (Quality) and DIN EN ISO 14001 (Environment).

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