



ArpoLite

Fibre Reinforced
Translucent Panels



Arvind. We are one.
Yet, we are many.

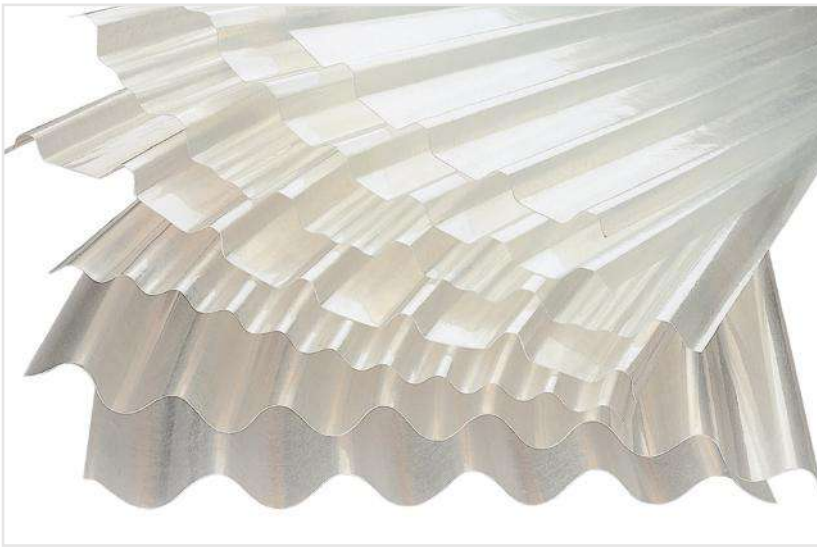


Arvind Ltd from India and Polser A.S from Turkey have come together to start a Joint Venture to produce world-class Translucent, Opaque, Flat, Embossed and Speciality FRP sheets in India. The JV formed in 2018 will target the growing Indian and global demand for FRP sheets market with focus on Pre Engineered Buildings, Cooling Tower, Pharma, Transport, Cold Storage and Food & Beverages industry.

Founded in 1931, the \$2 Bn Arvind is one of India's largest integrated textile-to-retail conglomerates with successful forays in Textiles, Garments, Branded Apparel, Advanced Materials, Environmental Solutions, and Real Estate. Arvind's Composites Division produces a range of FRP products suitable for vast applications serving global customers with high standards of quality and delivery. Arvind's technologies include Pultrusion, Hand Lamination, Filament Winding, Gratings, and others.

Polser A.S was founded in 1980. It has been one of the leading entities in the production, marketing and exporting of FRP sheets. With two decades of experience, Polser A.S has established itself as a strong player in the domestic and international market due to quality products.

Arvind Polser FRP Sheets are modern Building and Infrastructure products.



The FRP sheets act as a suitable alternative where classical metal, fiber cement and asbestos based products are not ideal fit for the requirement. It acts as an ideal translucent roofing & wall panel for aggressive environments, made from high grade resin that ensures excellent resistance in corrosive environments. It can be adapted to suit any structure and can be manufactured in required Plain, Trapezoidal or Corrugated Profiles

ArpoLite offers a wide range of Translucent sheets that combine Optimal light transmission, Weather resistance, Fire retardant and Blocking of Harmful UV rays.

ArpoLite panels made with Unsaturated Polyester UV Stabilized resin, are specifically designed to fit various light transmitting applications such as post frame buildings, pre-engineered metal buildings and greenhouses. The ArpoLite sheets may be produced with a protective film or gelcoat layer on the sheet's surface in order to extend the service life of the product.





Product Features

- ArpoLite has an excellent resistance to general corrosion for surface contacts with strong chemicals, thus remaining virtually unaffected in many chemical environments.
- ArpoLite sheets are strong and resilient. They don't rust, rot, scale, mildew and dent thus having a long service life.
- With application of Gel Coat and protective film on the sheets surface results into increasing its durability against environmental degrading, UV exposure, and corrosive chemicals.
- Use of UV stabilised resin helps with sufficient light transmission while stabilizing the harmful UV rays.
- ArpoLite allows as high as 85% of light to transmit making it an cost effective solution for natural lighting in buildings.
- ArpoLite sheets are light in weight. This, not only results in faster assembly of the roof but also diminishes the necessity of using a heavier metal construction underneath and therefore brings significant economies to the whole project.
- ArpoLite sheets can also be used in combination with roof and wall cladding panels made of other materials such as; asbestos cement, galvanized, aluminium, polyurethane sandwich panel, etc.

Common Application:

- For natural lighting in Industrial buildings,
- In areas of sports facilities and thermal pools, tourist facilities,
- Tradeshow, fair and marketplace areas,
- For natural lighting in storage facilities,
- For roofing in Agricultural and animal breeding facilities, etc.
- In Green House structure
- In Parking and Car Washing Facilities
- Home Improvement projects like Patio Covers, Decorative partitions, Fencing, etc.





Optional Product Specifications

ARPOLITE ST UV:

Standart ArpoLite sheets which are produced with UV resistant orthophtalic polyester resins.

ARPOLITE ST MUV:

Standart ArpoLite sheets which are produced with UV resistant orthophtalic polyester resins. The top surface is coated with Melinex 301 polyester film.

ARPOLITE ST JUV:

Standart ArpoLite sheets which are produced with UV resistant orthophtalic polyester resins. The top surface is coated with UV resistant ISO NPG gelcoat.

ARPOLITE ACRYL MUV:

ArpoLite sheets which are produced with UV resistant acrylic modified polyester resins. The top surface is coated with Melinex 301 polyester film.

ARPOLITE ACRYL JUV:

ArpoLite sheets which are produced with UV resistant acrylic modified polyester resins. The top surface is coated with UV resistant ISO NPG gelcoat.

ARPOLITE ACRYL UV:

ArpoLite sheets which are produced with UV resistant acrylic modified polyester resins.

ARPOLITE MX:

ArpoLite sheets which are produced with orthophtalic polyester resins. The top surface is coated with Melinex 389 high UV resistant polyester film.

ARPOLITE FR:

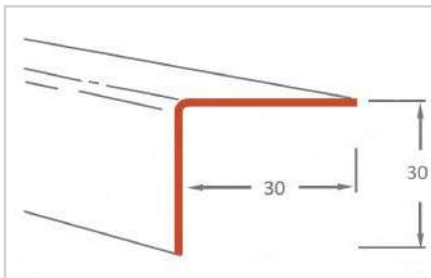
ArpoLite sheets which are produced with fire retardant resins. They might be produced according to BS 476-7 as class 3 and class 1, according to DIN 4102-7 as B2 and according to AFNOR as M2.

Technical Specifications:

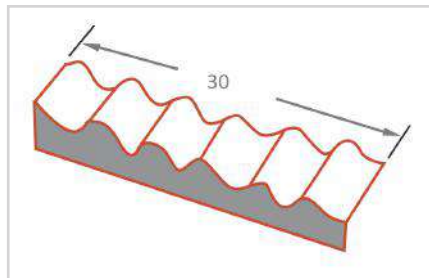
Surface (top/bottom) :	Standard, protective film, gelcoat,
Standard thickness :	0.9 - 1.2 mm (max. 4mm)
Standard length :	According to the requirement. (Also based on transportation limits)
Specific weight :	1.30 - 1.40 gr/cm ³
Light transmission :	80-85% (natural)
Service temperature :	Between -40°C, +120°C
Tensile strength :	720 kg/cm ²
Compressive strength :	920 kg/cm ²
Flexural strength :	1200 kg/cm ²
Thermal linear expansion coeff. :	$2.7 \times 10^{-5} \text{ } ^\circ\text{C}^{-1}$
Water absorption :	%0.2
Barcol hardness :	>40 Barcol
Self ignition temperature :	487°C
Heat transmission coeff. :	$\sim 5 \text{ w/m}^2 \text{ } ^\circ\text{K}$

Accessories

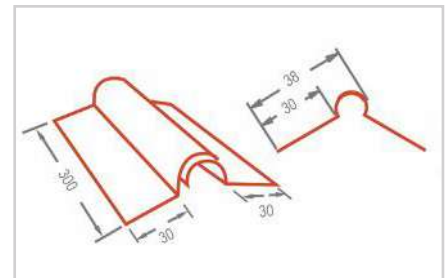
A wide range of accessories specifically designed for ArpoLite sheets like ridge capping, corner piece and gutters are available to choose from.



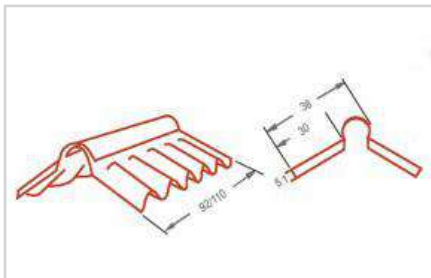
Corner Piece



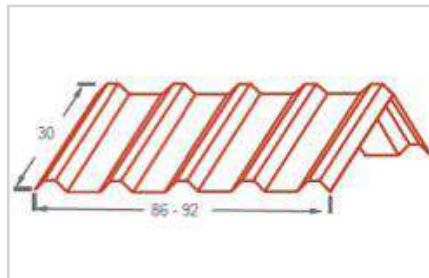
Flat / Corrugated Closure piece



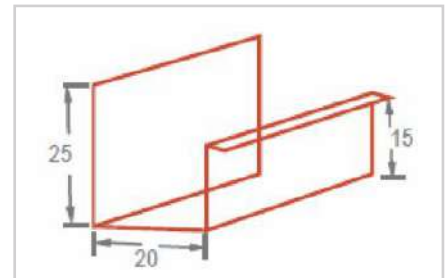
Flat Ridge capping



Corrugated Ridge capping



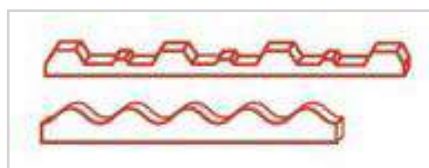
Trapezoidal Ridge Capping



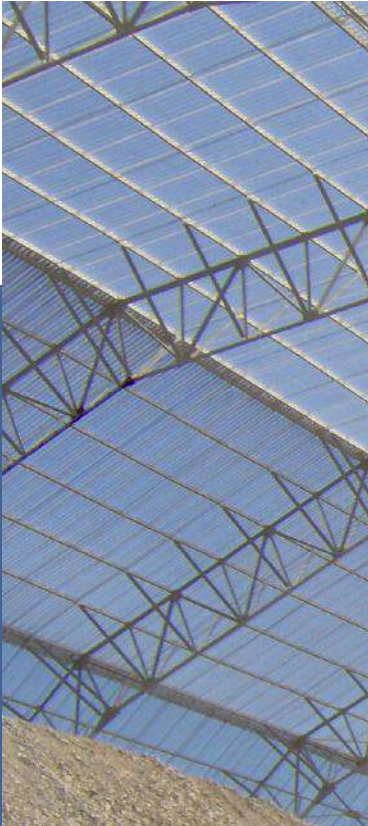
Gutter



Self Drilling Screw



EPDM Foam Filler



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