

### Product Description

Solarweave® is a Polyethylene based semi-transparent/opaque fabric designed for horticultural and most hot house applications; available in bulk rolls.

### Material

Base scrim: UV stabilised HDPE  
 Construction: 3.2 x 3.2 yarns/cm  
 Yarn size: 1100 denier  
 Coating: UV stabilised LDPE  
 Coating thickness: 50 µm  
 Finish top side: Natural  
 Finish bottom side: Natural  
 Temperature range: -30°C to +70°C

### Features

- Dirt repellent LDPE coating
- Excellent toughness and strength verses weight
- Good resistance to accidental punctures
- 5 year fabric UV warranty
- Improved weldability & very good weld strength compared to similar products
- Available in white and natural (clear) allowing different levels of light transmission
- Good resistance to most chemicals
- 100% recyclable material
- 100% Lead and Phthalate Free
- Greenguard® and Oeko-Tex® certified

### Suggested Specification:

Fabric shall be Synthesis Solarweave® with a fabric mass of 185 gsm constructed from a HDPE base fabric with a LDPE coating on both sides

### Properties

Fabric Mass: 185 gsm + / - 10  
 (AS4878.3)  
 Nominal thickness: ~ 0.25 mm

### Performance

Tensile Strength – warp: 850 N/50mm  
 Elongation at break: 27.8 %  
 Tensile Strength – weft: 852 N/50mm  
 Elongation at break – weft: 28.5 %  
 (AS4878.6 – Method 1)  
 Wing Tear – warp: 267 N  
 Wing Tear – weft: 249 N  
 (AS4878.7 – Method A2)  
 Burst Strength: 1675 kPa  
 (AS4878.5 – Method B)  
 Hydrostatic Pressure: 85 kPa  
 (AS2001.2.17)

### Usage Instructions

Suitable for hot air and hot wedge welding.  
 Not suitable for high frequency welding.  
 Do not use against flames.  
 Framing tape should be used to reduce heat transfer from metal frames. Foamed rubber or PVC based framing tape should **not** be used.  
 Solarweave® white is best installed with the white side facing the sun.  
 Contact with highly acidic, organic solvents, halogens some horticultural chemicals containing sulphur may reduce the service life of the fabric and void the warranty.

Colour	Code	Width	Length	Av. % Transmis.	Shade Factor	Av. UVR Transmis.	AV. PAR Transmis.	% UVR Block
White	413118	2.05 m	50 m	40.0%	59.9	13.9%	50.0%	86.0%
White	413132		100 m					
White	413187		Jumbo					
Natural	413125		50 m	84.0%	16.0	82.9%	84.6%	17.09%
Natural	413149		100 m					
Natural	413170		Jumbo					

	50m	100m	Jumbo
Approx. roll weight:	21 kg	39 kg	535kg
Approx. roll diameter:	0.16 m	0.20 m	0.85 m
Core diameter:	35 mm	35 mm	150 mm

Jumbo rolls may vary in length

According to AS4174  
 Av. % Transmission = Average % Transmission within the 290-770nm spectrum  
 Av. UVR Transmission = Average % Transmission within the 290-400nm spectrum  
 Av. PAR Transmission = Average % Transmission within the 408-770nm spectrum

The above results are typical averages from quality assurance testing and are not to be taken as a minimum specification nor as forming any contract between GALE Pacific and another party. Due to continuous product improvement product specifications are subject to alteration without notice.

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