

Solarweave®



Product Profile

Polyfabric Range

Rev. 7 05/13

Product Description

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

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 (AS4878.3)	185 gsm ± 10
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 (AS4878.6 – Method 1)	28.5 %
Wing Tear - Warp	267 N
Wing Tear - Weft (AS4878.7 – Method A2)	249 N
Burst Strength (AS4878.5 – Method B)	1675 kPa
Hydrostatic Pressure (AS2001.2.17)	85 kPa

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	According to AS4174
Approx. roll weight:	21 kg	39 kg	535kg	Av. % Transmis. = Average % Transmission within the 290-770nm spectrum
Approx. roll diameter:	0.16 m	0.20 m	0.85 m	Av. UVR Transmis. = Average % Transmission within the 290-400nm spectrum
Core diameter:	35 mm	35 mm	150 mm	Av. PAR Transmis. = Average % Transmission within the 408-770nm spectrum
Jumbo rolls may vary in length				

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 Profiles are subject to alteration without notice.
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