

Tech Questions



Light transmission of Canvacon®

Polyfabric Range

Rev2 11/07

What is the light transmission of Canvacon®?

Canvacon® does transmit a degree of natural light – however this depends on the colour of the fabric. (see table below).

Generally the lighter the colour of the fabric the more visible light **and** invisible light that passes through the fabric. Invisible light may also consist of UV light.

Why is this important?

Canvacon® is often used as ground covers and other protective sheeting for a number of different applications where plant life still needs to grow. People may request light transmission data or Photo-synthetically Active Radiation (PAR) information. (refer to the 'What is PAR?' Tech Question Sheet)

What do I need to be aware of?

Two Things:

1. The light transmission tests are conducted in a laboratory according to the Australian Standard AS 4174 – Synthetic Shadecloth. Therefore, most of the tests are not particularly suited to coated fabrics like Canvacon®. However, they do provide a guide for selecting a fabric based on colour performance.
2. It is difficult to recommend a particular colour fabric for specific type of plants. Depending on the exact species, different plants respond to differing levels and colour of light.

Colour	Cover Factor	Av. % Transmis.	Shade Factor	Av. UVR Transmis.	AV. PAR Transmis.	% UVR Block
Ice Blue	100%	10.6%	89.4%	0.2%	14.3%	99.8%
Blue	100%	2.8%	97.2%	0.0%	3.8%	100.0%
Royal Blue	100%	2.4%	97.6%	0.1%	3.2%	99.9%
Yellow	100%	13.7%	86.3%	0.7%	18.3%	99.3%
Green	100%	7.3%	99.3%	0.0%	0.9%	100.0%
Beige	100%	2.1%	97.9%	0.0%	2.8%	100.0%
Silver/White	100%	2.5%	97.5%	0.1%	3.4%	99.9%
White	100%	15.3%	84.7%	0.2%	20.7%	99.8%
Silver/Green	100%	0.3%	99.7%	0.0%	0.3%	100.0%

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

AS 4174 – 1994 – Appendix B

Test Date: 31/10/03

Test Location: Gale Pacific Ltd.

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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