

LUXAFLEX®

Spectra Fibreglass Sunscreen

FABRIC COLLECTION



Luxaflex® Spectra Fibreglass Sunscreen



Luxaflex® Spectra Sunscreen is a premium fibreglass range for the Luxaflex external fabric collection. Constructed using a twill weaving technique that produces highly durable fabrics with elegant diagonal patterns. Luxaflex Spectra Fibreglass Sunscreen is extremely robust, is inherently flame resistant due to its glass core yarn making it suitable for both residential and commercial applications.

STRENGTH AND STABILITY

The incredible strength and durability of Luxaflex Spectra Sunscreen comes from its use of fibreglass yarn with Enduris® Glass Core Technology. This is a combination of superior quality coatings, glass core yarns and innovative weaving techniques, allowing Luxaflex Spectra Fibreglass Sunscreen to be highly resistant to changes in temperature. Due to the nature of the fabric interlacing, the individual yarn can be packed more tightly together making the fabric stronger than a plain weave made from the same materials.

PERFORMANCE

Utilising Luxaflex Spectra Sunscreen on an external awning can eliminate up to 95%¹ of solar heat penetration while allowing diffused light to pass through.

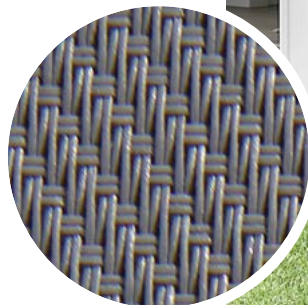
Light is evenly distributed through the fabric ensuring optimal contrast in the field of view preventing glare.

Spectra fabric range is made with Enduris Glass Core Technology, which is exceptionally fade resistant, rot resilient and offers excellent UV protection from the harsh Australian sun.

BEAUTY

Luxaflex Spectra Sunscreen features a sophisticated twill weave with subtly elegant diagonal patterns and is available in a range of contemporary colours. For an added touch of style, opt for a mélange mixed colour weave.

The unique production process and the inherent characteristics of fibreglass fabric allows Luxaflex Spectra Sunscreen to hang beautifully straight, even after being left up for extended periods.



ECO FRIENDLY



While some fabrics in the market may contain synthetic petroleum-based compounds, the glass core yarns used in the Luxaflex Spectra Sunscreen range are derived from Silica, a naturally and renewable mineral element. Luxaflex Spectra Sunscreen is a recyclable product that meets certification requirements set by Oeko-Tex® (excludes 5% openness) for the exclusion of harmful substances as well as being GreenGuard® Gold certified to meet strict certification criteria for low Volatile Organic Compound (VOC) emissions and is acceptable for use in environments such as schools and healthcare facilities (IEQ-11).

This makes Luxaflex Spectra Sunscreen not only the best choice for your home but the best choice for the environment as well.

Luxaflex® Spectra Fibreglass Sunscreen



5% OPENNESS*



Ultra Black

3% OPENNESS



White



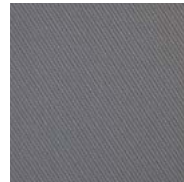
Pearl-White



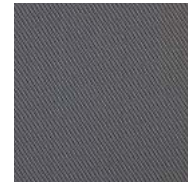
Pearl



Linen



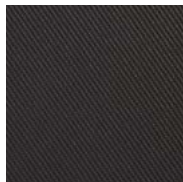
Grey



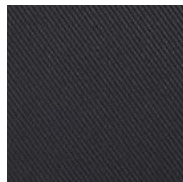
Grey-Black



Bronze



Black-Bronze

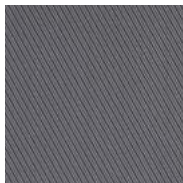


Black

1% OPENNESS



Grey



Grey-Black



Black-Grey



Black

*5% Spectra surface may have a slight shiny appearance.

FEATURES & BENEFITS

APPLICATIONS

Evo Awnings

System 2000 Awnings

Straight Drop Awnings

Exclusively available on the Luxaflex MagnaTrack System



Polyester Sunscreen



Spectra Fibreglass Sunscreen

Luxaflex Spectra Fibreglass Sunscreen has a finer glass core yarn than typical polyester sunscreens resulting in a much sharper view through.

UV & FADE RESISTANT

Spectra Fibreglass fabric is tested for Australian conditions with superior fade resistant qualities whilst still blocking out high levels of solar heat and harmful UV rays.

ENERGY EFFICIENCY

Luxaflex Spectra Sunscreen absorbs up to 92% of the solar energy on the awning, whilst only transmitting 3% of the total solar energy through the awning.

5 YEAR WARRANTY#

Luxaflex fabrics are backed by a 5 year warranty for your peace of mind.

CARE AND CLEANING

GENERAL CARE

Dusting with a feather duster is all that is required to keep your fabric looking good.

STAINS

The fabric skin can be wiped with a sponge soaked in lukewarm water for minor spots or marks. If marks are still visible, add a mild detergent. Then dry gently with a clean cloth.

Luxaflex® Spectra Fibreglass Sunscreen



TECHNICAL SPECIFICATIONS

COMPOSITION

5% Openness: Fibreglass 42%, PVC 58%
3% Openness: Fibreglass 41.5%, PVC 58.5%
1% Openness: Gibreglass 41.5%, PVC 58.5%

FABRIC WEIGHT

5% Openness: 525 g/m2 ± 5%
3% Openness: 544 g/m2 ± 5%
1% Openness: 474 g/m2 ± 5%

FABRIC THICKNESS

5% Openness: 0.74mm ± 0.10mm
3% Openness: 0.80mm ± 0.10mm
1% Openness: 0.60mm ± 0.10mm

BREAKING STRENGTH

(AS 2001.2.3-1988)
5% Openness: Warp 260daN, Weft 225daN
3% Openness: Warp 310daN, Weft 230daN
1% Openness: Warp 290daN, Weft 210daN

TEARING RESISTANCE

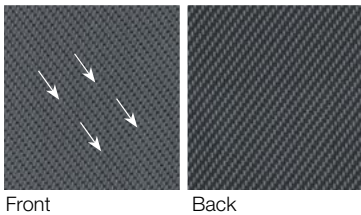
(AS 2001.2.10)
5% Openness: Warp 8.50daN, Weft 7.50daN
3% Openness: Warp 10daN, Weft 13daN
1% Openness: Warp 9.5daN, Weft 10daN

FABRIC STIFFNESS

5% Openness: Warp: 50 CMS; ± 5% Weft: 52 CMS ± 5%
3% Openness: Warp: 58 CMS ± 5% Weft: 57 CMS ± 5%
1% Openness: Warp : 46 CMS ± 5% Weft: 46 CMS ± 5%

WEAVE DIRECTION

Luxaflex Spectra Sunscreen has a front and back.
Colour variation between front and back will appear in weaves with more than one yarn colour. The true pattern direction shows weave running from upper left to bottom right as shown below.



ROLL WIDTH

2.7m, 2.85m & 3.2m

SOLAR OPTICAL GUIDE

SPECTRA SUNSCREEN 5%	HEAT PROPERTIES			VISIBLE LIGHT PROPERTIES
	TS	RS	AS	TL (TV)
ULTRA BLACK	6	3	91	6

SOLAR OPTICAL GUIDE

SPECTRA SUNSCREEN 3%	HEAT PROPERTIES			VISIBLE LIGHT PROPERTIES
	TS	RS	AS	TL (TV)
WHITE	19	67	14	19
PEARL-WHITE	7	47	46	6
PEARL	7	40	53	6
GREY	5	14	81	5
GREY-BLACK	4	13	83	4
BRONZE	5	9	86	5
LINEN	14	53	33	11
BLACK-BRONZE	6	6	88	6
BLACK	3	5	92	3

SOLAR OPTICAL GUIDE

SPECTRA SUNSCREEN 1%	HEAT PROPERTIES			VISIBLE LIGHT PROPERTIES
	TS	RS	AS	TL (TV)
GREY	5	21	74	2
GREY-BLACK	3	16	81	2
BLACK-GREY	1	10	89	1
BLACK	0	7	93	0

SOLAR OPTICAL PROPERTIES GUIDE

TS	Heat Transmittance (%)	AS	Heat Absorbance (%)
RS	Heat Reflectance (%)	TV/TL	Light Transmittance (%)

The fenestration property tests were conducted in accordance with EN 410 (1998), EN 14501: (2005) and EN 14500: (2008). Solar radiation is always partially transmitted through, absorbed or reflected by the fabric. The sum of all 3 equals 100. Ts+Rs+A=100% of solar energy.

FIRE RETARDANCY INFORMATION

Independently tested to AS1530.2 and AS1530.3. Suitable for classes 1, 2 to 9 (a) — (c) and 10 buildings as per BCA.

SPECTRA SUNSCREEN		5%	3%	1%
SPREAD OF FLAME	(Range 0-10)	0	0	0
HEAT EVOLVED	(Range 0-10)	0	0	0
SMOKE DEVELOPED	(Range 0-10)	5	5	4
IGNITABILITY	(Range 0-20)	0	0	0
FLAMMABILITY		1	1	5

Note: Fabric scan colours are as accurate as the printing process allows.

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