

Synthesis architectural shade fabrics are designed as strong and stable out-door fabrics for use in tension structures and shade sail applications. All Synthesis architectural fabrics offer the ultimate combination of maximum sun protection, strength and durability to ensure maintenance free long-life performance. Synthesis architectural shade fabrics are 100% lead and phthalate free and the first architectural shade cloth in the world to be granted Oeko-Tex100 and Greenguard certification.

Synthesis Commercial 95.

Heavy duty shade cloth

A very strong and stable outdoor fabric for use in tension structures and shade sails

Provides extremely high levels of UV protection up to 97.7% UVR block

Suitable for Schools, playgrounds, shopping centres, car parks, entertainment areas and swimming pools

Available in 17 colours

100% lead and phthalate free

Oeko-Tex 100 certified

Greenguard Children & School certified

10 year limited warranty against UV degradation

Specified globally for over 15 years

Selecting and specifying the right shade structure for any architectural application just got a whole lot easier.

Designed, engineered and manufactured by the world leader in knitted shade cloth technologies, Synthesis Commercial 95 architectural fabric offers absolute freedom in tension structure design.

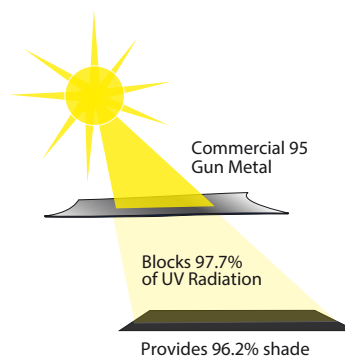
Whether you need an economical shade structure for use in schools, playgrounds, residential or through to large-scale public areas, Synthesis Commercial 95 shade fabric is engineered to suit any architectural shade cloth application. And when it comes to choosing the ideal colour to compliment your project, Commercial 95 comes in 17 trend colours created for a range of exterior settings. You simply won't find a better material with that optimal mix of sun protection, strength and durability.

Synthesis architectural shade fabrics are engineered using time-proven monofilament and tape lock-stitch construction to ensure optimum performance regardless of installation conditions. The fabric won't deteriorate or fray, and the high-quality construction provides for long-lasting performance, superior UV protection and unmatched strength. Commercial 95 carries our worldwide 10 year warranty against UV degradation.

Shade cloth that blocks below 90 %UVR is considered below Moderate for protecting people while above 95 %UVR block is considered High Protection.

UVR Block & UPF Ratings

All Synthesis shade fabric have been fully tested according to AS/NZ 4399 by the Australian Radiation Protection & Nuclear Safety Agency (ARPANSA) and feature the highest UPF results available to deliver the highest level of UVR protection of any commercial shade cloth. Commercial 95 shade fabric ranges up to 97.7% UVR block which is considered as "Excellent Protection" under guidelines set by Australia's Sun Smart and the Cancer Council. This fact combined with the inherent commercial strength of Commercial 95 makes it the best Architectural Shade fabric in the market today.



The %UVR block relates to the ability of the shade cloth to reflect or absorb Ultra Violet Radiation (UVR) within the 290nm to 400nm range of the spectrum. Heightened exposure to UVR has been shown to increase the rates of skin cancer. Therefore, the percentage of UVR block is an important factor when selecting shade cloth designed to protect people.

Synthesis Commercial 95 is the first shade cloth in its class to obtain OEKO-TEX® Standard 100 & Greenguard children & school certification.

As the demand for healthy, sustainable products continues to expand, consumers and building industry professionals increasingly demand substantiation of product sustainability claims and rely on trustworthy third-party certifiers to guide purchasing and specification decisions. GREENGUARD & Oeko-Tex Standard 100 Certification provides the market with solutions and resources to ensure healthier environments, and provides manufacturers with credible tools to legitimize and promote their sustainability efforts.

The GREENGUARD and Oeko-Tex Standard 100 certifications set stringent limits for products to achieve in several key areas such as:

- Limiting Volatile organic compound (VOC) content.
- Lowering formaldehyde emissions.
- Lowering Lead and phthalate content.

Commercial 95 is 100% Lead and Phthalate free.



Product Description

Commercial 95™ is a high quality knitted shade fabric supplied in bulk rolls, designed for tension structures, awnings and shade covers specifically for commercial architectural applications.

Material

Yarn	UV stabilised HDPE
Construction	Monofilament & tape
Pattern	Lock-stitch knitted
Temperature range	-30°C to +75°C

Features

- Strong HDPE fabric won't rot or absorb moisture.
- Stentered (heat-set) to reduce shrinkage and for ease of fabrication.
- 10 year UV degradation warranty on fabric.
- Engineered in Australia, for harsh climate conditions.
- 100% Lead and Phthalate free.

Usage Instructions

- Do not use against flames.
- Contact with organic solvents, halogens or highly acidic substances may reduce the service life of the fabric and void the warranty.
- Biaxial elastic material properties available on request.

Properties

Nominal fabric mass (AS 2001.2.13)	340 gsm ± 20
Approximate thickness	1.6 mm

Performance

Tensile Strength - Warp	635 N/50mm
Elongation at break	95.6 %
Tensile Strength - Weft	2494 N/50mm
Elongation at break (AS 2001.2.3.1)	70.4 %
Wing Tear – Warp (mean)	187 N
Wing Tear – Weft (mean) (AS 2001.2.10)	359 N
Bursting Pressure (mean) (AS 2001.2.4)	3500 kPa
Bursting Force (mean) (AS 2001.2.19)	2146 N

Flammability

(AS 1530.2)	
Flammability Index (range 0-100)	14

Lead & Phthalate Tests

(CPSIA Section 101(a)(2))	
Lead not detected	PASS
(CPSIA Section 108)	
Phthalate not detected	PASS

Suggested Specification

Shadecloth fabric shall be compliant to Australian standard AS 4174 and shall be Synthesis Commercial Commercial 95 knitted HDPE monofilament & tape shade fabric offering a UV block up to 97%.

Colour	Code	Nom Width	Length	Cover Factor	Shade Factor	Av % Trans	Av. UVR Trans	Av. PAR Trans	% UVR Block	UPF Rating	UPF Mean
Aquatic Blue	444938	3.00 m (folded)	40 m	96.8%	90.2	9.8%	6.4%	11.2%	93.6%	15.0	32.2
Black	444945			98.2%	97.4	2.6%	2.6%	2.7%	97.4%	35.0	59.8
Brunswick Green	444952			96.2%	93.9	6.1%	4.9%	6.3%	95.1%	15.0	32.6
Cayenne	455255			92.0%	87.0	13.0%	6.0%	11.6%	94.0%	11.0	14.7
Cedar	465360			93.0%	86.3	13.7%	6.5%	13.9%	93.5%	18.0	19.4
Charcoal	444969			94.7%	94.2	5.8%	5.3%	5.8%	94.7%	11.4	23.2
Cherry Red	444976			90.1%	75.3	24.7%	10.7%	22.4%	89.3%	8.8	12.1
Desert Sand	444983			94.0%	85.0	15.0%	3.6%	16.1%	96.4%	10.0	20.3
Deep Ochre	444990			95.1%	91.3	8.7%	5.6%	8.5%	94.4%	12.1	26.3
Gun Metal	455262			97.1%	96.2	3.8%	2.3%	3.9%	97.7%	23.0	54.9
Natural	445003			97.9%	74.3	25.7%	3.2%	30.1%	96.8%	35.0	62.4
Navy Blue	445010			96.2%	94.4	5.6%	4.8%	5.7%	95.2%	14.7	33.3
Rivergum Green	445027			94.7%	85.0	15.0%	7.7%	15.6%	92.3%	12.6	20.8
Sky Blue	445034			95.2%	90.4	9.6%	6.2%	9.9%	93.8%	16.0	21.3
Steel Grey	445041			95.6%	88.4	11.6%	7.0%	12.3%	93.0%	13.1	26.1
Turquoise	445065			94.0%	90.0	10.0%	5.7%	11.7%	94.3%	11.9	18.0
Yellow	445072			98.3%	77.2	22.8%	2.9%	25.0%	97.1%	45.0	71.3

Approx. roll weight: 44 kg

Approx. roll diameter: 0.32 m

Core diameter: 35 mm

The above results are typical averages from independent testing and 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.

Notice: As the use and disposal of this product are beyond Gale Pacific's control, regardless of any assistance provided without charge, Gale Pacific assumes no obligation or liability for the suitability of its products in any specific end use application. It is the customer's responsibility to determine whether Gale Pacific's products are appropriate for the specific application and complies with any legal & patent regulations.