

## Product Profile

## Architectural Shade Fabric

### Product Description

Our shade fabric is high quality knitted shade fabric designed for tension structures, awnings and shade covers specifically for commercial architectural

### Material

Yarn UV stabilised HDPE  
 Construction Monofilament & tape  
 Pattern Lock-stitch knitted  
 Temperature range -22°F to +167°F

### Features

- Strong HDPE 100% recyclable fabric won't rot or absorb moisture.
- Stentered (heat-set) to reduce shrinkage and for ease of fabrication.
- 1 year UV degradation warranty on fabric.
- 100% Lead and Phthalate free
- Greenguard® and Oeko-Tex® certified

### 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 10.5 oz/sq. yd.  
 (AS 2001.2.13) (340 gsm)

Approximate thickness 63 mils

### Performance

Tensile Strength - Warp 72 lbs./in.  
 Elongation at break 95.6 %

Tensile Strength - Weft 284 lbs./in.  
 Elongation at break 70.4 %

(AS 2001.2.3.1)

Wing Tear – Warp (mean) 42.0 lbs.

Wing Tear – Weft (mean) 80.7 lbs.

(AS 2001.2.10)

Bursting Pressure (mean) 507 psi

(AS 2001.2.4)

Bursting Force (mean) 482 lbf

(AS 2001.2.19)

### Flammability

ASTM E84 Class A

(AS 1530.2)

Flammability Index (range 0-100) 14

AS 1530 Part 2 & 3 certificates available on request

### Suggested Specification

Knitted HDPE monofilament & tape shade fabric offering a UV block up to 97%.

Color	Nom Width	Length	Cover Factor	Shade Factor	Av % Trans	Av. UVR Trans	Av. PAR Trans	% UVR Block	PF Rating	PF Mean
BLUE			96.8%	90.2	9.8%	6.4%	11.2%	93.6%	15.0	32.2
BLACK			98.2%	97.4	2.6%	2.6%	2.7%	97.4%	35.0	59.8
FOREST			96.2%	93.9	6.1%	4.9%	6.3%	95.1%	15.0	32.6
RUST			92.0%	87.0	13.0%	6.0%	11.6%	94.0%	11.0	14.7
RED			90.1%	75.3	24.7%	10.7%	22.4%	89.3%	8.8	12.1
KHAKI	9'10"	43.75yd	94.0%	85.0	15.0%	3.6%	16.1%	96.4%	10.0	20.3
SEDONA	(folded)	(131 ft.)	95.1%	91.3	8.7%	5.6%	8.5%	94.4%	12.1	26.3
CHARCOAL			97.1%	96.2	3.8%	2.3%	3.9%	97.7%	23.0	54.9
IVORY			97.9%	74.3	25.7%	3.2%	30.1%	96.8%	35.0	62.4
NAVY			96.2%	94.4	5.6%	4.8%	5.7%	95.2%	14.7	33.3
SAGE			94.7%	85.0	15.0%	7.7%	15.6%	92.3%	12.6	20.8
SKY			95.2%	90.4	9.6%	6.2%	9.9%	93.8%	16.0	21.3
GREY			95.6%	88.4	11.6%	7.0%	12.3%	93.0%	13.1	26.1
TURQUOISE			94.0%	90.0	10.0%	5.7%	11.7%	94.3%	11.9	18.0
YELLOW			98.3%	77.2	22.8%	2.9%	25.0%	97.1%	45.0	71.3

Approx. roll weight: 97 lbs.  
 Approx. roll diameter: 1 ft.  
 Approx. core diameter: 1.5 in.

Tested according to AS 4174 Synthetic Shadecloth

Av. % Transmis. = Average % Transmission within the 290-770nm spectrum

Av. UVR Transmis. = Average % Transmission within the 290-400nm spectrum

Av. PAR Transmis. = Average % Transmission within the 408-770nm spectrum

UPF (Ultraviolet Protection Factor)

PF (Rating) = actual rating assigned to material tested, inc standard deviation.

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 Tenshon® and another party. Due to continuous product improvement product specifications are subject to alteration without notice.

As the use and disposal of this product are beyond the control of Tenshon®, regardless of any assistance provided without charge, Tenshon® 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 Tenshon® products are appropriate for the specific application and complies with any legal & patent regulations.