

INDUSTRIAL FABRICS – SECTION FOUR

COMMERCIAL SHADECLOTH



E4 Jan 2011

Nolan.UDA

Sydney: (02) 9669 3333 • Newcastle: (02) 4957 7766
Melbourne: (03) 9545 5588 • Brisbane: (07) 3387 8500
Adelaide: (08) 8260 1055 • Perth: (08) 9376 2666
Darwin: (08) 8981 1555

www.NolanUDA.com.au

COMMERCIAL SHADECLOTH



The Polyfab range of shadecloth is the most comprehensive available in Australia. Each range has been engineered to comply with the Australian shadecloth standard AS 4174 and has a proven history of field performance under the harsh Australian elements.

Polyfab has a proud history of product innovation. Examples of these are the Ovalon™ yarn used in the heavy duty Architec 400 range to increase UVR block without compromising strength, and most recently their 'next generation' formulation used in the Poly FX and Comshade ranges which enhances performance and functionality.

KEY PRODUCT FEATURES



- ✓ *UV stabilised*
- ✓ *High strength*
- ✓ *Heat set*
- ✓ *High UVR block*
- ✓ *Abrasion resistant*
- ✓ *Fire retardant**
- ✓ *Colour fast*

**Not all ranges, refer product details.*

CONSUMER GUIDE

The objective of installing a shade structure or sail is to create shade. Polyfab ranges are manufactured using a monofilament and tape construction to maximise cover factor and provide the highest possible level of UVR block. This is important because UVR block is a measure of the degree of protection from the wavelengths of UV radiation known to be the cause of sunburn and cancer.

CARE INSTRUCTIONS



HDPE has only a weak resistance to halogens, such as chlorine and halogenated hydro-carbons. It is also affected by strong oxidising agents, such as hydrogen peroxide; chlorox (bleach); and some alcohols. Using such chemicals for cleaning should be avoided. Dirt or mildew is usually the result of contaminants caught in the interstices of the cloth, and should be easily removed using a high pressure hose. For stubborn stains, scrub with a brush and a weak solution of household detergent. Careful consideration should be given to the environment in which Polyfab shadecloth is used. For example, when suspended over a swimming pool, it will be exposed to chlorine emissions, and its effective life may be reduced.

PRODUCT DETAILS

Poly FX[®]

Shadesails made from Poly FX[®] offer a striking alternative to flat roof timber pergolas and can be designed to accentuate any location, whether it be a home, garden or commercial establishment.

Typical applications include swimming pools, beach entertainment, barbeque facilities, outdoor leisure and picnic areas.

Roll Sizes:

Centre Folded –
Width: 380cm Length: 30m
Straight Unfolded –
Width: 380cm Length: 50m



Physical Properties		Value	Units
Average Weight		235	g/m ²
Breaking Force	Warp	607	N/5cm
	Weft	1802	N/5cm
Breaking Extension	Warp	76.3	%
	Weft	53.2	%
Tear Resistance (Wing Tear)	Warp	113	N
	Weft	168	N
Bursting Force (Steel Ball)		1615	Mean N
Bursting Pressure		2375	Mean kPa
Flammability Index AS1530.2		1	

Colours available:



Colour				
Part #	Folded: 27POL FOL POR Unfolded: 27POL UNF POR	Folded: 27POL FOL CAP Unfolded: 27POL UNF CAP	Folded: 27POL FOL CAF Unfolded: 27POL UNF CAF	Folded: 27POL FOL SAN Unfolded: 27POL UNF SAN
UVR Block	94.2%	94.3%	96.5%	95.5%
Colour				
Part #	Folded: 27POL FOL RUS Unfolded: 27POL UNF RUS	Folded: 27POL FOL COP Unfolded: 27POL UNF COP	Folded: 27POL FOL MER Unfolded: 27POL UNF MER	Folded: 27POL FOL YEL Unfolded: 27POL UNF YEL
UVR Block	94.1%	95.5%	95.8%	95.1%
Colour				
Part #	Folded: 27POL FOL AQU Unfolded: 27POL UNF AQU	Folded: 27POL FOL NAV Unfolded: 27POL UNF NAV	Folded: 27POL FOL BLA Unfolded: 27POL UNF BLA	Folded: 27POL FOL SLA Unfolded: 27POL UNF SLA
UVR Block	93.3%	96.7%	96.4%	94.9%
Colour				
Part #	Folded: 27POL FOL BLU Unfolded: 27POL UNF BLU	Folded: 27POL FOL PLA Unfolded: 27POL UNF PLA	Folded: 27POL FOL LIG Unfolded: 27POL UNF LIG	Folded: 27POL FOL MID Unfolded: 27POL UNF MID
UVR Block	95.5%	92.6%	96.1%	93.7%

PRODUCT DETAILS

Comshade®

Comshade® is manufactured to Australian Standards: AS 4174-1994 and is ideal for large commercial projects where the fabric is supported by engineering certification that allows the knitted shade cloth to be placed under higher tensile loadings.

Roll Sizes:

Centre Folded –
Width: 380cm Length: 30m

Straight Unfolded –
Width: 380cm Length: 50m

Straight Unfolded 'Extra' –
Width: 6m Length: 30m



Physical Properties		Value	Units
Average Weight		330	g/m ²
Breaking Force	Warp	799	N/5cm
	Weft	2147	N/5cm
Breaking Extension	Warp	83.5	%
	Weft	63.0	%
Tear Resistance (Wing Tear)	Warp	172	N
	Weft	282	N
Bursting Force (Steel Ball)		1861	Mean N
Bursting Pressure		3000	Mean kPa

Colours available:



Colour				
Part #	Folded: 27COM FOL POR Unfolded: 27COM UNF POR Extra: 27COM EXT UNF POR	Folded: 27COM FOL SAN Unfolded: 27COM UNF SAN Extra: 27COM EXT UNF SAN	Folded: 27COM FOL AQU Unfolded: 27COM UNF AQU Extra: 27COM EXT UNF AQU	Folded: 27COM FOL NAV Unfolded: 27COM UNF NAV Extra: 27COM EXT UNF NAV
UVR Block	96.1%	95.2%	95.8%	98.2%
Colour				
Part #	Folded: 27COM FOL BLU Unfolded: 27COM UNF BLU Extra: 27COM EXT UNF BLU	Folded: 27COM FOL MID Unfolded: 27COM UNF MID Extra: 27COM EXT UNF MID	Folded: 27COM FOL CAP Unfolded: 27COM UNF CAP	Folded: 27COM FOL CAF Unfolded: 27COM UNF CAF
UVR Block	96.1%	95.4%	95.2%	96.1%
Colour				
Part #	Folded: 27COM FOL RUS Unfolded: 27COM UNF RUS	Folded: 27COM FOL COP Unfolded: 27COM UNF COP	Folded: 27COM FOL MER Unfolded: 27COM UNF MER	Folded: 27COM FOL YEL Unfolded: 27COM UNF YEL
UVR Block	95.7%	96.4%	96.7%	97.4%
Colour				
Part #	Folded: 27COM FOL BLA Unfolded: 27COM UNF BLA	Folded: 27COM FOL SLA Unfolded: 27COM UNF SLA	Folded: 27COM FOL PLA Unfolded: 27COM UNF PLA	Folded: 27COM FOL LIG Unfolded: 27COM UNF LIG
UVR Block	95.5%	96.8%	93.8%	94.9%

PRODUCT DETAILS

Comshade FR[®]

Comshade FR[®] is an innovative flame retardant shade cloth that is specifically designed to comply with the world's most stringent fire regulations. Polyfab Australia uses new-generation technology that enables flame resistant additives to work in harmony with ultraviolet stabilisers, something that was previously not possible. This ensures maximum flame resistance while still providing long-term UV protection prolonging fabric life.

Roll Size:






Width: 380cm Length: 30m



Physical Properties	
Average Weight	290g/m ²
Breaking Force/50mm	Warp 524N, Weft 2062N
Breaking Extension	Warp 77%, Weft 47%
Tear Resistance	Warp 108N, Weft 203N
Bursting Force	Mean 1579N

Fire Standard Compliant: AS 1530.2.1993: Flammability Index: 1 (Range 0-100). Spread Factor: 0 (Range 0-40). Heat Factor: 1 (Range 0-upwards). USA Standard ASTM E 84: Class 1 rating. USA Standard: NFPA 701-99 Test methods #1 and #2. California Fire Marshal Title 19: Section 1237.

Colours available:

Colour					
Part #	27COM FR FOL POR	27COM FR FOL SAN	27COM FR FOL AQU	27COM FR FOL BLU	27COM FR FOL MID
UVR Block	94.7%	95.3%	95.0%	95.5%	95.2%

Architec 400[®]

Architec 400 is a 100% monofilament shade cloth with exceptional strength to weight ratio. The unique use of Ovalon™ yarn provides high UVR block without compromising strength and performance. Applications are large tension structures.


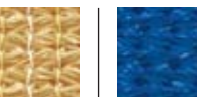

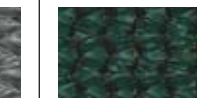
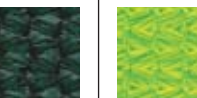

Roll Size: Straight Unfolded –

Width: 380cm Length: 50m



Physical Properties	
Average Weight	400g/m ²
Breaking Force/50mm	Warp 1028N, Weft 1897N
Elongation at Break	Warp 89.1%, Weft 92.6%
Tear Resistance	Warp 324N, Weft 330N
Bursting Pressure	Mean 4500kPa
Bursting Force	Mean 2862N






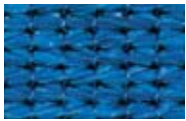




Colours available:

Colour/ UVR Block	 Porcelain (89.7%)	 Sandstone (87.7%)	 Aquamarine (94.3%)	 Navy Blue (96.0%)
Part #	27ARC UNF POR	27ARC UNF SAN	27ARC UNF AQU	27ARC UNF NAV
Colour/ UVR Block	 Slate Grey (87.8%)	 Midnight Green (95.1%)	 Lime (94.3%)	 Grape (90.1%)
Part #	27ARC UNF SLA	27ARC UNF MID	27ARC UNF LIM	27ARC UNF GRA
Colour/ UVR Block	 Orange (93.7%)	 Lemon (94.6%)	 Berry (94.8%)	 Black (96.3%)
Part #	27ARC UNF ORA	27ARC UNF LEM	27ARC UNF BER	27ARC UNF BLA



PARASOL is a tough, durable commercial grade Shadecloth, designated 'extra heavy' as defined by Australian Standard AS 4174-1994 "Synthetic Shadecloth". This means it satisfies the highest level of physical requirements specified by this standard, making it suitable for all outdoor applications including tension and other heavy duty structures.

PARASOL PRODUCT DETAILS

UVR Block test method (AS 4174-1994)					
Colour	Beach Sand	Red	Harvest	Forest Green	Terracotta
Part # Folded Unfolded	27PAR FOL BEA 27PAR UNF BEA	27PAR FOL RED 27PAR UNF RED	27PAR FOL HAR 27PAR UNF HAR	27PAR FOL FOR 27PAR UNF FOR	27PAR FOL TER 27PAR UNF TER
UVR Block	94.2%	88.7%	93.1%	93.8%	90.4%
Colour					
Part # Folded Unfolded	27PAR FOL OCE 27PAR UNF OCE	27PAR FOL NAV 27PAR UNF NAV	27PAR FOL IVO 27PAR UNF IVO	27PAR FOL GUN 27PAR UNF GUN	27PAR FOL BLA 27PAR UNF BLA
UVR Block	93.1%	90.3%	90.5%	93.3%	94.4%
Dimensions:	Nominal Weight: 325gsm Nominal Width: 3.0 metres Roll Length: 50 metres				
Physical Properties	Strength loss after prolonged laboratory UV testing – AS 2001.4.21: Less than three percent (<i>six times better than that recommended by AS 4174</i>). Colourfastness to light – AS 2001.4.21: Forest Green 6-7*, Red 6-7* (*max: 7 excellent fastness)				
	Break Force – AS 2001.2.3.2 (mean): Warp 1168N; Weft 2099N Bursting Force – AS 2001.2.19 (mean): 1887N Tear Resistance – AS 2001.2.10 (mean): Warp 179N; Weft 220N				
Fire Retardant Details:	AS 1530 Part III (1 low to 10 high) Test Results & Building Code of Australia General Requirements Smoke Developed Index: 5 (8 max). Spread of Flame Index: 8 (9 max).				



SOMBRERO is a premium grade shadecloth suitable for a wide range of domestic, commercial, horticultural and agricultural applications. Sombrero is knitted with UV stabilised high density monofilament and is specifically designed for the harsh Australian environment.

SOMBRERO PRODUCT DETAILS

Colour				SHADING PROPERTIES <i>as defined by AS 4174</i> <hr/> Shade Factor: 65% to 73% UVR Block: 64% to 73% PAR: 27% to 35%
Part #	27SOM BLA	27SOM DAR	27SOM SAN	
Dimensions:	Nominal Weight: 240gsm Nominal Width: 4.0 metres Roll Length: 50 metres			
Physical Properties	Construction: 100% high density monofilament Tensile Strength: AS 2001.2.3.2 – Warp 1013N; Weft 1376N Tear Strength: AS 2001.2.10 – Warp 148 ± 10N; Weft 152 ± 7N Bursting Force: AS 2001.2.19 – 1629N ± 110			