Commercial Heavy 430 is a high quality knitted shade fabric designed for tension structures, awnings and shade sails specifically for commercial architectural applications; supplied in bulk rolls.

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

FABRIC PROPERTIES
(AS 2001.2.13) mass per unit
Nominal fabric mass	430 gsm ± 20
Approximate thickness	1.6 mm

ROLL SPECIFICATIONS
Nominal width:	3.0m (unfolded)
Length:	40m
Approx. roll weight:	54 kg
Approx. roll diameter:	0.30 m
Core diameter:	76 mm

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.

SUGGESTED SPECIFICATION
Shade cloth fabric shall be compliant to Australian standard AS 4174:2018 and shall be GALE Commercial Heavy 430 knitted with HDPE monofilament offering a UVE Protection Category of "Effective".

FLAMMABILITY
Part 2 & 3 certificates available on request

(AS 1530.2) Part 2 - Flammability of Materials
Flammability Index (Range 0-100)	21

(AS 1530.3) Part 3 - Flammability of Materials
Ignitability Index (Range 0-20)	9
Spread of Flame Index (Range 0-10)	9
Heat Evolved Index (Range 0-10)	4
Smoke Developed Index (Range 0-10)	5

PERFORMANCE

(AS 2001.2.3.1-2001) Maximum Force and Elongation - Strip Method
Maximum Force – Warp (Mean)	1600 N/50mm
Elongation at Maximum Force – Warp (Mean)	108 %
Maximum Force – Weft (Mean)	1400 N/50mm
Elongation at Maximum Force (Mean)	165 %

(AS 2001.2.3.2-2001) Breaking Force - Grab Test
Breaking Force – Warp (Mean)	1800 N
Breaking Force – Weft (Mean)	1600 N

(AS 2001.2.10-1986) Tear Resistance – Wing Rip Method
Wing Tear – Warp (mean)	503 N
Wing Tear – Weft (mean)	255 N

(AS 2001.2.4) Bursting Pressure – Hydraulic Diaphragm Method
Bursting Pressure (mean)	3900 kPa

(AS 2001.2.19-1988) Bursting Force – Ball Burst Method
Bursting Force (mean)	2349 N

(AS 4174:2018) Shade Protection Fabric Performance
Colour	Cover Factor	Shade Factor	UV-Vis Trans %	UVR Trans %	UVR Block %	UVE %	Protection Category
Aquatic Blue	87	85.5	14.5	12.7	87.3	87	Effective
Black	86	86.4	13.6	13.6	86.4	86	Effective
Bright Green	86	85.2	14.8	13.2	86.8	86	Effective
Brunswick Green	86	86.7	13.3	13.2	86.8	86	Effective
Charcoal	87	87.5	12.5	12.4	87.6	87	Effective
Deep Ochre	87	87.0	13.0	12.7	87.3	86	Effective
Desert Sand	85	79.0	21.0	14.1	85.9	85	Effective
Emerald	86	84.7	15.3	13.3	86.7	86	Effective
Natural	88	73.9	26.1	12.1	87.9	87	Effective
Navy Blue	87	86.8	13.2	12.5	87.5	87	Effective
Orange	86	75.9	24.1	13.2	86.8	86	Effective
Red	87	76.0	24.0	12.6	87.4	87	Effective
Royal Purple	86	85.0	15.0	13.5	86.5	86	Effective
Steel Grey	86	85.5	14.5	13.5	86.5	86	Effective
White	86	69.0	31.0	13.4	86.6	86	Effective
Yellow	86	70.3	29.7	13.9	86.1	85	Effective