GALE COMMERCIAL

Commercial Heavy

Product Profile



Commercial Heavy is a premium, heavyweight HDPE shade fabric engineered for vast structures and high-wind environments, utilising a patented intertwining knit to deliver unparalleled tear resistance and dimensional stability. Designed for large-scale architectural projects where scale and precision are paramount, its advanced construction provides a visually striking appearance with superior abrasion resistance and water-shedding properties that perform year after year.

Features and Benefits

- **Dimensional Stability:** Stentered (heat-set) to prevent deformation and simplify fabrication, minimising re-tensioning, and maintenance costs.
- **Extreme Strength:** 100% virgin grade polymers in a monofilament construction for superior tensile strength, rot-proof performance, and moisture resistance.
- **Fade-Resistant Palette:** Available in 16 architectural colours, with UV-stabiliser components engineered in the raw material to ensure long-lasting colour performance.

15 Year Warranty | Lead & Phthalate Free | PFAS Free | Recyclable HDPE

OEKO-TEX® STANDARD 100 12.HUS.15194 HOHENSTEIN HTTI | GREENGUARD GOLD | ASLA CORPORATE MEMBER | Endorsed by Cancer Council | ATA ADVANCED TEXTILES ASSOCIATION

For more information, visit **galecommercial.com**

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Technical Specifications

Fabric Properties	**Metric** - AS 2001.2.13 *(mass per unit)*	**Imperial** - ASTM D3776 *(mass per unit)*
Nominal Fabric Mass	430 gsm ± 20	12.7 oz / yd²
Approx. Thickness	1.6 mm	0.06 in
Temperature range	-30 – 70 °C	-22 – 158 °F

Roll Specifications	**Metric** *(mass per unit)*	**Imperial** *(mass per unit)*
Nominal Width	3.0 m	9 ft 10 in
Length	40 m	131 ft 3 in
Approx. Roll Weight	54 kg	119 lbs
Approx. Roll Diameter	0.30 m	1 ft
Core Diameter	76 mm	3 in

Performance Data

Flammability		
Certification	**Test**	**Value**
AS 1530.2–Part 2 - Flammability Test	Flammability Index (Range 0-100)	21
AS 1530.3–Part 3 – Early Fire Hazard Test	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

Maximum Force And Elongation - Strip Method *(AS 2001.2.3.1-2001)*	
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 – Weft (Mean)	165 %
Breaking Force - Grab Test *(AS 2001.2.3.2-2001)*	
Breaking Force – Warp (Mean)	1800 N
Breaking Force – Weft (Mean)	1600 N
Tear Resistance – Wing Rip Method *(AS 2001.2.10-1986)*	
Wing Tear – Warp (Mean)	503 N
Wing Tear – Weft (Mean)	255 N
Bursting Pressure – Hydraulic Diaphragm Method *(AS 2001.2.4)*	
Bursting Pressure (Mean)	3900 kPa
Bursting Force – Ball Burst Method *(AS 2001.2.19-1988)*	
Bursting Force (Mean)	2349 N

Shade Protection Fabric Performance *(AS 4174:2018)*

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
Cherry Red	87	76.0	24.0	12.6	87.4	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
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

**Test results available upon request. Each colour individually tested and passes all certification criteria for above. Available in Flame Retardant and Non-Flame Retardant. Biaxial elastic material properties available on request. Select colors only available in made to order.*

Care & Maintenance

Do not use near open flames. Avoid contact with organic solvents, halogens, or highly acidic substances, as these will reduce service life and void the warranty.

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 GALE Pacific 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 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.

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