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COMMERCIAL

DualShade® FR

Product Profile

**Uncompromising Fire Safety.
Unrivalled Architectural Design.**

DualShade® FR is a premium, dual-colour flame-retardant (FR) shade fabric engineered for high-profile public spaces requiring the highest safety certifications. Utilising an advanced patent-pending knit structure to create a dynamic, light-reactive surface, it delivers a striking visual aesthetic without compromising on fire-code compliance.

Features and Benefits

- **Built-In Fire-Retardant Technology:** Fire retardants engineered into base fibres, not topically, for consistent protection that meets the most stringent standards, including NFPA 701 and CSFM.
- **Dual-Colour UV Protection:** Patented dual colour pattern delivers a unique iridescent, light-responsive finish with up to 93% UV block.
- **Dimensional Stability:** Patented intertwining knit is stentered (heat-set) to prevent shrinkage and simplify fabrication minimising re-tensioning and maintenance costs.
- **Extreme Strength:** 100% virgin grade polymers in a monofilament and tape construction for superior tensile strength, rot-proof performance, and moisture resistance.



12 Year
Warranty



Lead &
Phthalate Free



PFAS Free



Recyclable HDPE



For more information, visit [galecommercial.com](https://www.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	350 gsm ± 20	10.3 oz / yd ²
Approx. Thickness	1.8 mm	0.07 in
Roll Specifications		
	Metric (mass per unit)	Imperial (mass per unit)
Nominal Roll Width	1.5 m	
Nominal Fabric Width	3.0 m	9 ft 10 in
Length	40 m	131 ft 3 in
Approx. Roll Weight	45 kg	99.2 lbs
Approx. Roll Diameter	0.40 m	1.3 ft
Core Diameter	50 mm	1.97 in

Performance Data

Flammability							
Certification	Test	Value					
AS 1530.2-Part 2 - Flammability Test	Flammability Index (Range 0-100)	1					
	Ignitability Index (Range 0-20)	13					
AS 1530.3-Part 3 - Early Fire Hazard Test	Spread of Flame Index (Range 0-10)	8					
	Heat Evolved Index (Range 0-10)	3					
	Smoke Developed Index (Range 0-10)	6					
CSFM (California State Fire Marshal)	Title 19, CCR §1237.1	Pass					
NFPA (National Fire Protection Association)	NFPA 701 – Test Method 1 & Test Method 2	Pass					
ASTM International	ASTM E84-19B	Class A					
AFNOR	NF P 92-503	M1 (In Process)					
Maximum Force And Elongation - Strip Method		AS 2001.2.3.1-2001	ASTM D5034				
Maximum Force – Warp (Mean)		790 N/50mm	196 lbf				
Elongation at Maximum Force – Warp (Mean)		99 %	79%				
Maximum Force – Weft (Mean)		1200 N/50mm	286 lbf				
Elongation at Maximum Force – Weft (Mean)		72 %	71 %				
Breaking Force - Grab Test		AS 2001.2.3.2-2001					
Breaking Force – Warp (Mean)		1200 N					
Breaking Force – Weft (Mean)		1300 N					
Tear Resistance – Wing Rip Method		AS 2001.2.10-1986					
Wing Tear – Warp (Mean)		238 N					
Wing Tear – Weft (Mean)		180 N					
Bursting Pressure – Hydraulic Diaphragm Method		AS 2001.2.4					
Bursting Pressure (Mean)		3300 kPa					
Bursting Force – Ball Burst Method		AS 2001.2.19-1988	ASTM D6797				
Bursting Force (Mean)		1915 N	383 lbf				
Tearing Strength – Tongue (Single Rip)			ASTM D2261				
Mean Force – Warp (Mean)			61.4 lbf				
Mean Force – Weft (Mean)			47.3 lbf				
Shade Protection Fabric Performance (AS 4174:2018)							
Colour	Cover Factor	Shade Factor	UV-vis Trans %	UVR Trans %	UVR Block %	UVE %	Protection Category
Amazonia	93	91.8	8.2	6.8	93.2	92	Very Effective
Capri	92	84.1	15.9	8.0	92.0	91	Very Effective
Chameleon	91	87.1	12.9	8.9	91.1	91	Very Effective
Citrus	93	88.1	11.9	6.8	93.2	92	Very Effective
Cobblestone	93	90.3	9.7	7.0	93.0	92	Very Effective
Gold Rush	91	88.0	12.0	8.5	91.5	91	Very Effective
Macaw	92	84.7	15.3	8.4	91.6	91	Very Effective
Maldives	92	89.7	10.3	7.3	92.7	92	Very Effective
Santorini	93	83.4	16.6	7.7	92.3	92	Very Effective
Savanna	92	81.1	18.9	7.4	92.6	92	Very Effective
Sunburst	90	76.4	23.6	9.9	90.1	90	Effective
Topaz	93	87.5	12.5	7.8	92.2	93	Very 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.

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