

**DATA SHEET for:**

**Brook Woven Flag**

**Product Code:** FWP  
**Available Widths (m):** 1.03, 1.25, 1.53 and 2.03  
**Roll Lengths (m):** 50 - 100 supplied on a 76mm (3") full width core

PROPERTY	TEST METHOD	RESULT
Fire Retardancy	BS5867	Type B
Fire Retardancy	DIN4102	B1
Yarn Composition	Not tested	100% Polyester
Mass per Unit Area	BS EN 12127	155gsm +/- 5%
Ends and Picks	BS EN 1049 Pt. 2	13/cm x 12/cm
Breaking Strength	BS2576	1050N x 825N (minimum)
Stability to Heat	Annex A UK/SC/4767	2% x 2%

Information and test results for guidance only and may change without prior notice, Customer to determine suitability of product for the intended end use. V2

Suitable for dye-sublimation and when pre-treated digital printing with solvent, UV, aqueous and, disperse inks. **Woven Flag** is a high performance woven polyester fabric with a traditional appearance.

**Treatments available:** pure, to order digital pre-treatments for solvent, eco-solvent, UV, aqueous or disperse inks and flame retardant options that will comply with FR standards above

**Colour:** optic white to optimise print performance.

**Typical end uses:** flags, internal and external banners, soft signage, retail display graphics, exhibition graphics, murals, promotional advertising applications



## Report on the trial results of the fire-tunnel tests according to DIN 4102-1

Test-Nr.	01.52.4330.07	Date: 6 <sup>th</sup> February, 2007
Applicant	Brook International, Riparian Way, Cross Hills, Keighley, West Yorkshire BD20 7BW	
Material tested	Fabric	
Material name	FWP W01 Optic White ( FR Treated )	

### Material data

Test thickness	mm	Climatised storage	yes
Average surface area mass	g/m <sup>2</sup>	Preliminary end of test	no
Average raw density	kg/m <sup>3</sup>	No. of tests required for main examination	
Glow remains according to DIN 52330	%	Miscellaneous details:	

Test units		A	B	C	D
First flames *)	min, sec	0:03			
Max. flame height	cm	40			
Point of time *)	min, sec	0:25			
Melting point *)	min, sec	0:04			
Flames on reverse side of test unit *)	min, sec	-			
Influence on burner flame *)	min, sec	0:22			
Burning components drip down *)	min, sec	0:05			
Extent		strong			
Continuation of burning on the perforated bottom **)	min, sec	-			
Max. smoke temperature	°C	116			
Appeared after *)	min, sec	10:00			
Smoke density		low			
Glowing particles after test end **)	min, sec	-			
Remaining lengths	Test 1	cm	59		
	Test 2	cm	60		
	Test 3	cm	62		
	Test 4	cm	59		
Average value of single test		cm	60		

Remarks:---

The test material passed the „Brandschacht“ to DIN 4102-B1.

  
ppa. Dr. Kanig

  
i. A. Maßmann

\*) Point of time referred to the test beginning  
\*\*) Time period

Art der Anforderung	Anforderungen		
	A 1	A 2	B 1
Brandschacht - Restlänge			
a) Mittelwert jedes Schachtes	> 35 cm	> 35 cm	> 15 cm
b) Einzelwerte	> 20 cm	> 20 cm	> 0 cm
- Rauchgastemperatur	< 125 °C	< 125 °C	< 200 °C
- Entflammung auf der Probenrückseite	nein	nein	zulässig
- Brandparallelscheinungen weitere Nachweise	kein Anlass zu Bedenken		
	750°C Ofen, Rauchdichte, Toxizität, ggf. Heizwert	B2- Brennkasten	

This information sheet is not a certificate of building material class according to DIN 4102-1.

quick - mix Gruppe GmbH & Co. KG

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**TEST CERTIFICATE**

No. 06043/6

**Assessment to BS 5867 : 1980 Specification for Fabrics for  
Curtains and Drapes, Part 2 : Flammability Requirements using BS 5438 : 1976****SAMPLE INFORMATION**

Client **Brook International, Flagship House, Riparian Way, Cross Hills, KEIGHLEY,  
BD20 7BW**

Fabric Reference **Flag Weave (FWP FR), Batch No. 1876, Composition stated to be 100% Polyester.**

Dimensions **100cm by 150cm (Full width)**

Date Received **24.1.06**

Pre-treatment **None.**

Conditioning **BS 5438 : 1976, Clause 4.**

**TESTING**

Following the pre-treatment described above, the material was conditioned and tested according to **Test 2 of BS 5438 : 1976 Method of test for flammability of vertically oriented textile fabrics and fabric assemblies subjected to a small igniting flame, using a 15 second flame application time** and the results assessed according to the requirements of **BS 5867 : 1980 Specification for Fabrics for Curtains and Drapes, Part 2 : Flammability Requirements**. Testing was carried out on the face side of the fabric.

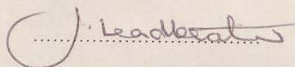
Specimen No.	WARP			WEFT		
	1	2	3	1	2	3
Flame reached an edge	No	No	No	No	No	No
Hole reached an edge	No	No	No	No	No	No
Flaming debris separated	No	No	No	No	No	No

It should be noted that the results may not apply to situations where there is a restricted air supply or prolonged exposure to intense heat as in a conflagration.

**CONCLUSION**

**The sample received meets BS 5867 : 1980 Specification for Fabrics for Curtains and Drapes, Part 2, Flammability Requirements, Type B.**

It should be noted that the fabric should be supplied with the manufacturers name, trademark or other identifying mark; the statement 'Flammability complies with the requirements of BS 5867 : Part 2, Type B' and instructions on any special precautions to be taken concerning care (including cleansing) of the product to be manufactured from the fabric, preferably using an appropriate care labelling symbol in accordance with BS 2747 and taking account of the pre-treatment used in this test and the requirements of Clause 4 of BS 5867 : Part 2 : 1980.



Mr J Leadbeater LL.B DTS  
**Technical Manager**  
END OF REPORT