BROOK INTERNATIONAL
SPECIALITY FABRICS FOR FLAGS, BANNERS & DIGITAL PRINT
ESTABLISHED 1898

DATA SHEET for:

Brook Textured Poly 205g FR

Product Code: FKPP1
Available Widths (m): 1.40, 1.53, 1.60, 1.83 and 3.06
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% Semi dull Polyester
Weight	BS2471	205gsm
Bursting Strength	BS EN ISO13938 - 2	>600Kpa

Information and test results for guidance only and may change without prior notice, Customer to determine suitability of product for the intended end use. *V3*

Suitable for dye-sublimation and digital printing with solvent, UV, aqueous and, disperse inks. *Textured Poly FR* is a high performance knitted polyester fabric with a dense construction to give excellent colour reproduction.

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

Colour: optic white to optimise print performance.

Typical end uses: internal and external banners, soft signage, retail display graphics, stretch frame art reproduction, murals, pop ups, display systems, promotional advertising applications and personalised soft filled products

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

Test-Nr.	01.52.4378.07	Date: 17th April, 2007

Applicant	Brook International, Riparian Way, Cross Hills, Keighley, West Yorkshire BD20 7BW
Material tested	Fabric
Material name	Textured Poly FR FKPD1 Brook Digital 7

Material data

Test thickness	mm	Climatised storage	yes
Average surface area mass	g/m²	Preliminary end of test	no
Average raw density	kg/m³	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	0:03			
Flames on reverse side of test unit *)	min, sec	-			
Influence on burner flame *)	min, sec	-			
Burning components drip down *)	min, sec	0:05			
Extent		moderate			
Continuation of burning on the perforated bottom **)	min, sec	-			
Max. smoke temperature	°C	115			
Appeared after *)	min, sec	10:00			
Smoke density		low			
Glowing particles after test end **)	min, sec	-			
Remaining lengths Test 1	cm	60			
Test 2	cm	64			
Test 3	cm	65			
Test 4	cm	63			
Average value of single test	cm	63			

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
- Brandparallelerscheinungen	kein Anlass zu Bedenken		
weitere Nachweise	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.

TÜV CERT DIN EN ISO 9001

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

Test-Nr.	01.52.4386.07	Date: 24th April, 2007

Applicant	Brook International, Riparian Way, Cross Hills, Keighley, West Yorkshire BD20 7BW
Material tested	Fabric
Material name	Textured Poly FR FKPP1 – January 2007

Material data

Test thickness	mm	Climatised storage	yes / no
Average surface area mass	g/m²	Preliminary end of test	
Average raw density	kg/m³	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	0:03			
Flames on reverse side of test unit *)	min, sec	-			
Influence on burner flame *)	min, sec	0:11			
Burning components drip down *)	min, sec	0:07			
Extent		moderate			
Continuation of burning on the perforated bottom **)	min, sec	-			
Max. smoke temperature	°C	114			
Appeared after *)	min, sec	10:00			
Smoke density		low			
Glowing particles after test end **)	min, sec	-			
Remaining lengths Test 1	cm	62			
Test 2	cm	60			
Test 3	cm	62			
Test 4	cm	63			
Average value of single test	cm	62			

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
- Brandparalleferscheinungen	kein Anlass zu Bedenken		
weitere Nachweise	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.

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UKAS TESTING No. 1801

TEST CERTIFICATE

No. F08038/1

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	**Textured Poly FR FKPP1.**
Dimensions	**50cm by 153cm**
Date Received	**04.02.08**
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.

	WARP			WEFT		
Specimen No.	**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, as 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. Since the fabric is FR treated it should indicate "IF WETTED IN ANY WAY IT IS ESSENTIAL TO RE-TREAT THE FABRIC TO MEET FLAMMABILITY REQUIREMENTS".

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Mr J Firth
Technical Manager
END OF REPORT