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Ref: 6082/1/STC004

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Date: 9 March 2001

Client: Mainstage Presentation Technology Ltd
Sharpes Mill
White Cross
Lancaster
LA1 4XQ

Job title: Flammability testing of one woven fabric

Client's order or ref no: Letter 14 February 2001

Date of receipt: 16 February 2001

Description of sample(s): One woven fabric
Reference 100% Cotton fabric treated with MSL Firecheck

Work requested: Flammability testing according to BS 5867: Part 2: 1980
Type B performance requirements

The test method in this report is UKAS accredited. Any opinion, interpretation or comments expressed in this report are outside the scope of UKAS accreditation.



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Ref: 6082/1/STC004 Page 2 of 2

Client: Mainstage Presentation Technology Ltd

Sample: One woven fabric
Reference 100% Cotton fabric treated with MSL Firecheck

Test Method: BS 5438: 1976 Test 2
Flame application time = 15s

Performance Standard: BS 5867: Part 2: 1980 Type B performance requirements

Pretreatment: None (tested in the "as received" condition)

Summary of Results:

"The results may not apply to situations where there is restricted air supply or prolonged exposure to large sources of intense heat as in a conflagration."

Specimen	1↑	2↓	3↑	4→	5←	6→
Flame reached an edge	No	No	No	No	No	No
Hole reached an edge	No	No	No	No	No	No
Flaming debris	No	No	No	No	No	No
Duration of flaming, s	0	0	0	0	0	0
Duration of afterglow, s	0	0	0	0	0	0
Vertical hole size, mm	0	0	0	0	0	0
Horizontal hole size, mm	0	0	0	0	0	0

Assessment:

Tested in the "as received" condition this fabric complies with the Type B performance requirements of BS 5867: Part 2: 1980.

Note in connection with BS 5867: Part 2: 1980 clause 4 - Durability

This fabric is treated with a nonwashable flame agent and has not been subjected to any cleansing procedure prior to testing. Therefore, as specified in clause 4.1 the fabric must be clearly labelled: **IF WETTED IN ANY WAY IT IS ESSENTIAL TO RE-TREAT THE FABRIC TO MEET FLAMMABILITY REQUIREMENTS.**

Reported by: *M T Healey* M T Healey

Countersigned: *A Didycz* A Didycz

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Ref: 6082/6/STC004

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Date: 1 May 2001**Client:** Mainstage Presentation Technology Ltd
Sharpes Mill
White Cross
Lancaster
LA1 4XQ**Job title:** Ignitability testing of one woven fabric**Client's order or ref no:** Letter 14 February 2001**Date of receipt:** 12 April 2001**Description of sample(s):** One woven fabric
Reference 100% Cotton fabric treated with MSL Firecheck**Work requested:** Ignitability testing to BS 5852: 1990

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Ref: 6082/9/STC004 Page 2 of 3

Client: Mainstage Presentation Technology Ltd

Sample: One woven fabric
Reference 100% Cotton fabric treated with MSL Firecheck

Pretreatment: None (tested in the "as received" condition)

Test Method: BS 5852: 1990 Section 4 (upholstery composite)
Ignition Source 5 (flaming wood crib)
Large test rig
As only one specimen was tested the result must be considered as indicative only

Foam Filling: Vitafoam CMHR35 combustion modified foam (35kg/m³)

Summary of Results:

Conditioning: Minimum of 72 hours in indoor ambient conditions followed by at least 16 hours at a temperature of $20 \pm 5^{\circ}\text{C}$ and a relative humidity of $50 \pm 20\%$

"The following test results relate only to the ignitability of the combination of upholstery composites (section 4 of BS 5852: 1990) under the particular conditions of test stated; they are not intended as a means of assessing the full potential fire hazard of the materials or products in use."

Note in connection with BS 7176: 1995 clause 4.2 - Durability

This fabric is treated with a non-wettable flame agent and has not been subjected to any water soaking procedure prior to testing. Therefore, the fabric must be clearly labelled:
IF WETTED IN ANY WAY IT IS ESSENTIAL TO RE-TREAT THE FABRIC TO MEET FLAMMABILITY REQUIREMENTS.

Results obtained – see Page 3

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Client: Mainstage Presentation Technology Ltd

Sample: One woven fabric
Reference 100% Cotton fabric treated with MSL Firecheck

Summary of Results:

	Test 1	Test 2
Specimen ignited at	43s	44s
Flaming ceased at	3mins 39s	3mins 57s
Smoking ceased at	3mins 39s	3mins 57s
Extent of damage to backrest, mm	130x390x60mm	120x400x60mm
Extent of damage to seat, mm	130x100x60mm	120x100x50mm
Progressive smouldering ignition		
Unsafe escalating combustion? (Yes/No)	No	No
Test specimen consumed? (Yes/No)	No	No
Smoulders through thickness or to extremities? (Yes/No)	No	No
Smoulders more than 60 mins? (Yes/No)	No	No
Smoulders more than 100mm from source? (Yes/No)	No	No
Flaming ignition		
Unsafe escalating combustion? (Yes/No)	No	No
Test specimen consumed? (Yes/No)	No	No
Flaming to extremities? (Yes/No)	No	No
Flaming through thickness? (Yes/No)	No	No
Flaming for more than 10 mins? (Yes/No)	No	No
Flaming debris causing isolated floor fire? (Yes/No)	No	No
Overall result		
NI = non-ignition (i.e. "pass" result)	NI/5	NI/5
I = ignition (i.e. "fail" result)		

Assessment:

This fabric (tested in the "as received" condition over Vitafoam CMHR35 combustion modified foam) complies with the ignition resistance requirements of BS 5852: 1990 for ignition source 5 (flaming wood crib).

Reported by:..... *M T Healey* M T Healey
 Countersigned by:..... *A Didycz* A Didycz

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