

## FLAMMABILITY TEST CERTIFICATE – 94678

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**DATE RECEIVED:** 09/12/2021  
**DATE TESTED:** 14/12/2021  
**DATE ISSUED:** 15/12/2021  
**PO NUMBER:** 21895

**SAMPLE DESCRIPTION:** BROKEN TWILL WEAVE - WOVEN FABRIC. TREATED WITH A DURAFAM® FLAME RETARDANT FORMULATION BY FABRIC FLARE SOLUTIONS LTD.  
**COLOUR:** VARIOUS  
**QUALITY/BATCH REF:** BROKEN TWILL WEAVE  
**COMPOSITION:** 100% RECYCLED POLYESTER  
**SAMPLE END USE:** UPHOLSTERY  
**SUPPLIER/BUYER:** KVADRAT A/S

### SPECIFICATION/REQUIREMENT:

BS 7176:2007+A1:2011 – Specification for the resistance to ignition of upholstered furniture for non-domestic seating by testing composites. (Medium Hazard)

### TEST METHOD(S):

BS EN 1021-1:2006 – Furniture – Assessment of the ignitibility of upholstered furniture. Ignition source smouldering cigarette.

BS EN 1021-2:2006 – Furniture – Assessment of the ignitibility of upholstered furniture. Ignition source Match equivalent.

BS 5852:2006 – Methods of test for the assessment of the ignitibility of upholstered seating by smouldering and flaming ignition sources.

### PRE-TREATMENT:

Water Soak procedure in accordance with Annex D of BS EN 1021-1:2006 & Annex E of BS 5852:2006

### CONDITIONING:

The sample was conditioned for 72 hrs in ambient conditions then for at least 24 hrs in a specified atmosphere at  $23 \pm 2^{\circ}\text{C}$  and  $50 \pm 5\% \text{ r h}$ .

Authorised By:



Zeb Alam  
Operations Director

Mark Jones  
Quality Manager

Karen Brooks  
Managing Director

Please note: The uncertainty of measurement is taken into account when stating conformance to the specification. The measured value(s) marked\* are compared with the 'acceptance interval' which is determined by reducing the specification limits by the expanded test uncertainty  $U_{k=2}$  (approximately 95% confidence interval). Results outside these limits are declared as 'fail'. All test results issued on this report refer only to the item under test as supplied by the customer. This test report shall not be duplicated. Textile Innovation House, 1 Lyons Road, Trafford Park, Manchester, M17 1RN T: 0161 50 50 650 E: [technical@ifs-labs.com](mailto:technical@ifs-labs.com)



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### TEST RESULTS:

“The Following test results relate only to the ignitibility of the combination of the materials under the particular conditions of test; they are not intended as a means of assessing the full potential fire hazard of the materials in use.”

TEST CRITERIA – 1021-1 (CIGARETTE TEST)	INITIAL TEST	REPEAT TEST
FILLING MATERIAL USED:	GB33M	GB33M
Smouldering ceased: (Min(s))	30	30
<b>PROGRESSIVE SMOULDERING CRITERIA (3.1)</b>		
Unsafe escalating combustion (3.1a)	NO	NO
Smoulders to extremities (3.1b)	NO	NO
Smoulders through thickness (3.1c)	NO	NO
Smoulders for more than 1 hr (3.1d)	NO	NO
Presence of active smouldering on final examination? (3.1e)	NO	NO
Evidence of melting, charring, dripping?	Melting: <input type="checkbox"/>	Charring: <input type="checkbox"/> Dripping: <input type="checkbox"/>
<b>FLAMING CRITERIA (3.2)</b>		
Cover Split?	NO	NO
Occurrence of flames?	NO	NO
<b>TEST RESULT</b>	<b>PASS</b>	<b>PASS</b>

TEST CRITERIA – 1021-2 (MATCH TEST)	1 <sup>st</sup> Test	2 <sup>nd</sup> Test	3 <sup>rd</sup> Test
FILLING MATERIAL USED:	GB33M	GB33M	GB33M
Flaming ceased: Sec(s)	0	0	0
<b>PROGRESSIVE SMOULDERING CRITERIA (3.1)</b>			
Unsafe escalating combustion (3.1a)	NO	NO	NO
Smoulders to extremities (3.1b)	NO	NO	NO
Smoulders through thickness (3.1c)	NO	NO	NO
Smoulders for more than 1 hr (3.1d)	NO	NO	NO
Evidence of melting, charring, dripping?	Melting: <input type="checkbox"/>	Charring: <input type="checkbox"/> Dripping: <input type="checkbox"/>	
<b>FLAMING CRITERIA (3.2)</b>			
Unsafe escalating combustion (3.2a)	NO	NO	NO
Test assembly consumed (3.2b)	NO	NO	NO
Flaming to extremities and thickness (3.2c) (3.2d)	NO	NO	NO
Flaming continued for more than 120 seconds	NO	NO	NO
Cover split?	NO	NO	NO
<b>TEST RESULT</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

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TEST RESULTS continued:

TEST CRITERIA – BS 5852:2006 Source 5	INITIAL TEST	REPEAT TEST
Flaming Ceased:	03.03	03.22
<b>PROGRESSIVE SMOULDERING CRITERIA (4.1)</b>		
<b>FILLING MATERIAL USED:</b>	GB33M	GB33M
b) Detectable amounts of smoke, heat or glowing 60 mins after crib ignition?	NO	NO
c) Displays unsafe escalating combustion, requires to be forcibly extinguished?	NO	NO
d) Smouldering consumed the test specimen within the duration of the test?	NO	NO
e) Smoulder to the extremities i.e. upper or lower margins, either side or to its full thickness?	NO	NO
f) On final inspection, any evidence of charring more than 100 mm in any direction (apart from upwards) from the original nearest position?	NO	NO
<b>FLAMING CRITERIA (4.2)</b>		
b) Flaming continued for more than 10 minutes after the ignition of the crib?	NO	NO
c) Displays unsafe escalating combustion, requires to be forcibly extinguished?	NO	NO
d) Flaming and/or smouldering consumed the test specimen within the duration of the test?	NO	NO
e) Flame front reaches the lower margin, either side or passes through the full thickness?	NO	NO
<b>TEST RESULTS</b>	<b>PASS</b>	<b>PASS</b>

### CONCLUSION:

The sample supplied **meets** the test criteria of BS 7176:2007 + A1:2011 (Medium Hazard)

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2513