

Our Ref: SW/LS/RM

26 January 2022

Report 385394/2

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Pineapple Contracts Unlimited
Westmead
Ilford
Kent
ME20 6XJ

DATE RECEIVED	:	20 DECEMBER 2021
DATE TESTED	:	06 JANUARY 2022
QUALITY REFERENCE	:	DMS 372 LONE
COLOUR / DESIGN	:	SCORPIO CRIB 5
SAMPLE DESCRIPTION	:	COATED
END USE	:	MATTRESS

REQUEST: BS7177:2008 + A1:2011 Specification for resistance to ignition of mattresses, mattress pads, divans and bed bases – Table 1: Medium Hazard Use

RESULT: The sample submitted meets the flammability performance requirements of BS7177:2008 + A1:2011 Table 1: Medium Hazard Use



S. WISEMAN
LABORATORY DIRECTOR



L. SMITH
QUALITY COORDINATOR

This report shall not be reproduced except in full without written approval of HSTTS. In all circumstances results of tests are implied as referring only to the sample supplied and should not be construed or interpreted on any other basis. The comments given in the report are for guidance only and are not a part of the results. Where specified in a test method preconditioning in accordance with ISO 139 is not carried out as samples are exposed to the conditioning atmosphere specified within ISO 139 for a minimum of 16 hours prior to test.



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BS 7177:2008 + A1:2011 Specification for resistance to ignition of mattresses, mattress pads, divans and bed bases

BS7177:2007 +A1:2011 specifies flammability performance requirements for mattresses, divans, mattress pads and bed bases includes additional requirements in clause 4.1.2 relating to the flammability behaviour of the filling materials used. As the items submitted to HSTTS were complete articles, we have not verified that the filling materials used meet the requirements of clause 4.1.2

Clause 4.1.1 requires that testing is carried out in accordance with the frequency stated in clause 5. No information was provided by the client regarding the lot size or frequency of testing.

According to Table 1, items for Medium Hazard end-use shall meet the requirements of BSEN 597-1:1995 (cigarette ignition source) and BSEN 597-2:1995 (match-equivalent flame) and BS 6807:2006 Clause 9 using ignition source 5 (wood crib).

The client confirmed the mattress sample was identical on both sides.

Pre-treatment:

Pre-treatment applied: None (tested in 'as received' condition)

In accordance with clause 4.2, all outer covers and inner covers intended for high or very high hazard categories which have been chemically treated to reduce their ignitability are subjected to the water soaking and drying procedures specified in BS 5852:2006 Annex E prior to being conditioned. Pre-treatment will be applied if it is not known whether the fabric is chemically treated. Such pre-treatment is not necessary for materials which are formulated to be or are inherently flame-retarded. Pre-treatment is also not possible where fully finished composites representative of the finished item are submitted.

Conditioning

The test specimen subjected to conditioning for 72 hours in an indoor ambient atmosphere followed by at least 16 hours at a temperature of (23± 2°C) and relative humidity of (50±5%).

Test results

The following test results relate only to the ignitability of the combination of materials under the particular conditions of test; they are not intended as a means of assessing the full potential fire hazard of this item in use. They also only relate to the materials tested.

- (i) BS EN 597-1:1995 Furniture - Assessment of the ignitability of mattresses and upholstered bed bases – Part I. Ignition Source: Smouldering cigarette.

<u>Area</u>	<u>Test</u>	<u>Observations</u>	<u>Outcome</u>
Top surface	1	No flaming or progressive smouldering observed	NI (Non-ignition)
	2	No flaming or progressive smouldering observed	NI (Non-ignition)

- (ii) BS EN 597-2:1995 Furniture - Assessment of the ignitability of mattresses and upholstered bed bases – Part 2. Ignition Source Match flame equivalent.

Duration of flame application: 15 seconds

Area tested	Test	Duration of flaming, s	Progressive smouldering	Comments	Outcome
Top surface	1	0	No		NI (Non-ignition)
	2	0	No		NI (Non-ignition)

Note: ECB = Escalating combustion behaviour;
ME = Sample required manual extinction

- (iii) BS 6807:2009 Method of test for the assessment of the ignitability of mattresses, upholstered divans, and upholstered bed-bases with flaming types of primary and secondary sources of ignition – Clause 9 Primary sources of ignition

Ignition source used: 5 (wood crib)

Area tested	Test	Duration of flaming (minutes/seconds)	Progressive smouldering	Comments	Outcome
Top surface	1	3.51	No		NI (Non-ignition)
	2	4.14	No		NI (Non-ignition)
Beneath overhang	1	5.38	No		NI (Non-ignition)
	2	4.18	No		NI (Non-ignition)

Note: ECB = Escalating combustion behaviour;
ME = Sample required manual extinction

Comments

When tested as described above the sample is assessed as meeting the flammability performance requirements of BS7177 Table 1 for Medium Hazard end-uses.

Decision rules

The decision rule applicable to statements of conformity relating to the test(s) carried out is simple acceptance based on the measured test results not falling within a range either side of a specified limit that is equal to the uncertainty of measurement for the parameter measured (based on 95% confidence levels). In all other regards, the decision rule is based on simple acceptance predicated upon the conditions of testing falling within the criteria for test set out in the test method with a conformance probability of 95%. The risk of false accept or false reject is therefore not greater than 2.5%.

Uncertainty of measurement: Timings ±0.4s
Dimensions ±0.5mm