

Jarven Health Care
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Sweden

Hengelo (ov), 7 jul. 11

Test specimen:	Specimen:	Colour:	Client reference number:
	A.	Yellow	FIRE PROOF MATRAS (dik material/aramide coating densiteit 35kg/m ³)

Examination:	Testnumber:	Testname:
	1.	FIRE TESTS ACCORDING TO BS EN 597-1:1995 ASSESSMENT OF THE IGNITABILITY OF MATTRESSES AND UPHOLSTERED BED BASES (Part 1: Ignition source: smouldering cigarette)
	2.	FIRE TESTS ACCORDING TO BS EN 597-2:1995 ASSESSMENT OF THE IGNITABILITY OF MATTRESSES AND UPHOLSTERED BED BASES (Part 2: Ignition source: match flame equivalent)
	3.	FIRE TESTS ACCORDING TO BS6807: 2006 (Methods of test for assessment of the ignitability of mattresses, upholstered divans and upholstered bed bases with flaming types of primary and secondary sources of ignition).

Results See following pages

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Test : 1. Fire tests according to BS EN 597-1 : 1995
Assessment of the ignitability of mattresses and upholstered bed bases (part 1: Ignition source: smouldering cigarette).

Norm : BS EN 597-1 : 1995

Procedure

The sample of Yellow Fire Proof Matra, was tested after being conditioned for 16 hours in an atmosphere having a temperature of 23 ± 2°C and a relative humidity of 50 ± 5%, in accordance with the above standard using the specified cigarette placed in the positions stated in Para, 9.2.1.

Criteria Of Ignition

Progressive smouldering ignition.

- a) Any test specimen that displays escalating combustion behaviour so that it is unsafe to continue the test and active extinction is necessary;
- b) Any test specimen that smoulders until it is essentially consumed within the test duration;
- c) Any test specimen that smoulders to its full thickness, within the duration of the test;
- d) Any test specimen that smoulders for more than one hour;
- e) Any test specimen that, on final examination, shows evidence of charring other than discolouration more than 50 mm in any horizontal direction from the nearest point of the original position of the source.

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 the item in use. They also only relate to the materials tested.

Ignitability Performance

Top Surface = Non-ignition

Results Test 1 Specimen	A.	
	Test 1	Test 2
Smouldering criteria		
Unsafe escalating combustion	No	No
Test assembly consumed	No	No
Smoulders through thickness	No	No
Smoulders more than 1 hour	No	No
More than 50mm from source	No	No
Flaming criteria		
Occurrence of flames	No	No

Comments

A non-ignition designation indicates that the sample met the performance requirements.

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Test : 2. Fire tests according to BS EN 597-1 : 1995
Assessment of the ignitability of mattresses and upholstered bed bases (part 2: Ignition source: match flame equivalent).

Norm : BS EN 597-2 : 1995

Procedure

The sample of Yellow Fire Proof Matra was tested after being conditioned for 16 hours in an atmosphere having a temperature of $23 \pm 2^\circ\text{C}$ and a relative humidity of $50 \pm 5\%$ in accordance with the above standard using the specified flame placed in the positions stated in Para, 9.2.1.

Criteria Of Ignition

Progressive smouldering & flaming ignition.

- a) Any test specimen that displays escalating combustion behaviour so that it is unsafe to continue the test and active extinction is necessary;
- b) Any test specimen that smoulders until it is essentially consumed within the test duration;
- c) Any test specimen that smoulders to its full thickness, within the duration of the test;
- d) Any test specimen that smoulders for more than one hour;
- e) Any test specimen that, on final examination, shows evidence of charring other than discolouration more than 50 mm in any horizontal direction from the nearest point of the original position of the source.
- f) Any test specimen that displays escalating combustion behaviour so that it is unsafe to continue the test and active extinction is necessary;
- g) Any test specimen that burns until it is essentially consumed within the test duration;
- h) Any test specimen on which any flame front reaches its extremities or passes through its full thickness within the duration of the test.
- i) Any flaming that continues to burn more than 120 s after removal of the burner tube.

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 the item in use. They also only relate to the materials tested. They do not guarantee to represent the performance of production materials.

Ignitability Performance

Top Surface = Non-ignition

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Results Test 2 Specimen	A.	
	Test 1	Test 2
Unsafe escalating combustion	No	No
Test assembly consumed	No	No
Smoulders through thickness	No	No
Smoulders more than 1 hour	No	No
More than 50mm from source	No	No
Test assembly consumed	No	No
Burning through thickness or to the extremities	No	No
Flaming for more than 120s	No	No

Comments

A non-ignition designation indicates that the sample met the performance requirements.



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Test : 3. FIRE TESTS ACCORDING TO BS 6807: 2006 (methods of test for assessment of the ignitability of mattresses, upholstered divans and upholstered bed bases with flaming types of primary and secondary sources of ignition).

Norm : BS 6807 : 2006

Procedure

Specimens of Yellow Fire Proof Matra were tested in the 'as received' condition in accordance with clause 9 of the above standard using ignition source 7 in the positions specified, after being conditioned for 72 hours in indoor ambient conditions, and then 16 hours in an atmosphere having a temperature of $23\pm 2^{\circ}\text{C}$ and a relative humidity of $50\pm 5\%$.

Progressive smouldering ignition

- a) Any test specimen that displays escalating smouldering combustion behaviour so that it is unsafe to continue the test and forcible extinction is required;
- b) Any test specimen that smoulders until it is essentially consumed or that smoulders to the extremities of the specimen, i.e. to either side or to the full thickness of the specimen, within the duration of the test;
- c) Any test specimen that produces externally detectable amounts of smoke, heat or glowing 60 after ignition of the crib;
- d) For top ignition only: any test specimen that on final examination shows evidence of smouldering by means of discoloured char that extends more than 100 mm in any horizontal direction from the nearest part of the original position of the source.

Flaming ignition

- a) Any test specimen that displays escalating flaming combustion behaviour so that it is unsafe to continue the test and forcible extinction is required;
- b) Any test specimen that burns until it is essentially consumed within the test duration;
- c) Any test specimen on which any flame front reaches the extremities of the specimen other than the top or passes through the full thickness of the specimen within the duration of the test.
- d) Any test specimen that continues to flame for more than 13 minutes after ignition of the crib;
- e) Any test specimen that from which debris causes an isolated floor fire not meeting the criteria of item d).

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.

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Results Test 3 Specimen	A.		
Ignition source	Position	Time of extinction(s)	Ignition/Non-ignition
7	On top	540	Non-ignition
7	Below	480	Non-ignition
7	On top	506	Non-ignition
7	below	412	Non-ignition

Comments

A non-ignition designation indicates that the sample met the performance requirements.

Meets the requirements of BS 7177: 2008 (Specification for resistance to ignition of mattresses, mattress pads, divans and bed bases) High Hazard Category, when tested in accordance with: BS EN 597 – 1:1995, BS EN 597 – 2:1995 & BS 6807: 2006 (Clause 9).


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