

FLAMMABILITY TEST REPORT

Report No.: LEHTX00522255 Date Received: 26/02/10 Date Tested: 03/03/10 Issue Date: 04/03/10

Company Name & Address: GYM-MASTER LTD.
UNIT S2
OFF WAINWRIGHT STREET
PARK ROAD
DUKINFIELD
CHESHIRE
SK16 5LP

Contact Name: JASON BOWERS

Sample Details

Description: As with the club Judo Mat these are again heavy duty mats for all combat sports, these mats are designed to be used in Tournament situations for all combat sports. Constructed using a 14lb density chipfoam with a heavy duty flame retardant Tatami PVC coated fabric bonded to the top and sides. Cellular base for extra resistance. Available in Red or Green Tatami.

Ref no.: Not stated
Style no.: Tournament Judo Mats
Colour: Green & Red Tatami as Standard
Supplier: Gym-Master Ltd.
End use: Judo / Martial Arts
Sample description: Blocks consisting of:
Green coloured outer cover fabric
Foam inner
Base material

Test Method	Pre Treatment	Flammability Performance Requirements	Result
BS 1892 – 3 : 2003 Annex B	None	High Hazard Classification as per Table 1 of BS 1892 – 3: 2003	PASS

Please note: 1 mat was used to create the 90mm depth of filling



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(Chemical Technologist)

CAROLE SPOWART
(Flammability Technician)

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(Quality Manager)

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(Analytical Lab Manager)

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Test Specification

Test method BS 1892 – 3:2003 Annex B
Criterion of ignition: Source 0 (Calibrated Cigarette) & Source 5 (Pine wood Crib)
Position of ignition source: As per Figure 2, Position of ignition sources for L shaped test specimens (continued)

Pre-treatment / Durability procedure

None

Conditioning

Prior to testing: At least 72 hours in ambient indoor conditions, then at least 16 hours in an atmosphere having a temperature of $20\pm 5^{\circ}\text{C}$ and a relative humidity of $50\pm 20\%$
At time of testing: Temperature between 15°C & 30°C . Relative humidity between 20% & 70%

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Test Results

"The following test results relate only to the ignitability of the combination of upholstery composites under the particular conditions of test; they are not intended as a means of assessing the fully potential fire hazard of the materials in use."

Source 0 : 'In Use' Side

	Initial Test	Repeat Test
Progressive smouldering ignition		
Escalating smouldering rendered the test unsafe to continue and required forcible extinction	No	No
Smouldering essentially consumed the test specimen within the duration of the test	No	No
Externally detectable amounts of smoke, heat or glowing 60 minutes after placement of the cigarette	No	No
Flaming ignition		
Flaming initiated by the smouldering cigarette was observed	No	No
Final examination		
Progressive smouldering was observed when the sample was dismantled	No	No
Evidence of smouldering other than discolouration more than 50mm in any horizontal direction from the nearest part of the original position of the cigarette	No	No
Time to extinction of smoke after placement of the cigarette	The cigarette failed to burn its complete length	The cigarette failed to burn its complete length
Test Result	Pass	Pass

Source 0 : Reverse Side

	Initial Test	Repeat Test
Progressive smouldering ignition		
Escalating smouldering rendered the test unsafe to continue and required forcible extinction	No	No
Smouldering essentially consumed the test specimen within the duration of the test	No	No
Externally detectable amounts of smoke, heat or glowing 60 minutes after placement of the cigarette	No	No
Flaming ignition		
Flaming initiated by the smouldering cigarette was observed	No	No
Final examination		
Progressive smouldering was observed when the sample was dismantled	No	No
Evidence of smouldering other than discolouration more than 50mm in any horizontal direction from the nearest part of the original position of the cigarette	No	No
Time to extinction of smoke after placement of the cigarette	The cigarette failed to burn its complete length	The cigarette failed to burn its complete length
Test Result	Pass	Pass

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Test Results (Continued)

Source 5 : 'In Use' Side

Pass / Fail Criteria	Initial test	Repeat test
Progressive smouldering failure		
Externally detectable amounts of smoke, heat or glowing 60 min after crib ignition	No	No
Escalating smouldering behaviour rendered the test unsafe to continue and required forcible extinction	No	No
Smouldering essentially consumed the test specimen within the duration of the test	No	No
Flaming failure		
The test specimen continued to flame for more than 10 minutes after the ignition of the crib	No	No
Escalating combustion behaviour rendered the test unsafe to continue and required forcible extinction	No	No
Flaming essentially consumed the test specimen within the duration of the test	No	No
Flaming reached the extremities of the test specimen (Lower margin, either side or passed through its full thickness) within the duration of the test	No	No
Final examination		
Progressive smouldering was observed when the sample was dismantled	No	No
Comments		
Time to extinction of flames after crib ignition	5 minutes 34 seconds	4 minutes 45 seconds
Time to extinction of glowing after crib ignition	7 minutes 38 seconds	6 minutes 39 seconds
Time to extinction of smoke after crib ignition	8 minutes 06 seconds	7 minutes 03 seconds
Maximum extent of damage to back (mm) Length / Width	450 105	450 105
Maximum extent of damage to base (mm) Length / Width	70 100	65 105
Test Result	Pass	Pass

Source 5 : Reverse Side

Pass / Fail Criteria	Initial test	Repeat test
Progressive smouldering failure		
Externally detectable amounts of smoke, heat or glowing 60 min after crib ignition	No	No
Escalating smouldering behaviour rendered the test unsafe to continue and required forcible extinction	No	No
Smouldering essentially consumed the test specimen within the duration of the test	No	No
Flaming failure		
The test specimen continued to flame for more than 10 minutes after the ignition of the crib	No	No
Escalating combustion behaviour rendered the test unsafe to continue and required forcible extinction	No	No
Flaming essentially consumed the test specimen within the duration of the test	No	No
Flaming reached the extremities of the test specimen (Lower margin, either side or passed through its full thickness) within the duration of the test	No	No
Final examination		
Progressive smouldering was observed when the sample was dismantled	No	No
Comments		
Time to extinction of flames after crib ignition	5 minutes 02 seconds	5 minutes 24 seconds
Time to extinction of glowing after crib ignition	6 minutes 58 seconds	6 minutes 57 seconds
Time to extinction of smoke after crib ignition	7 minutes 30 seconds	7 minutes 22 seconds
Maximum extent of damage to back (mm) Length / Width	450 111	450 111
Maximum extent of damage to base (mm) Length / Width	75 111	65 105
Test Result	Pass	Pass