

Test Report No. 7191089886-MEC14/1-YWA  
dated 19 Jun 2014  
(221404855)



PSB Singapore

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**SUBJECT:**

Flame Retardancy test on "Cameltech Industries Sdn Bhd" Fire Retardant Foam for Furniture Industries submitted by Cameltech Industries Sdn Bhd on 29 May 2014.

**TESTED FOR:**

Cameltech Industries Sdn Bhd  
No 2, Lorong Zainal Abidin 13  
Off Jalan Pendamar  
41200 Klang, Selangor  
Malaysia

**DATE OF TEST:**

16 Jun 2014 and 17 Jun 2014

**PURPOSE OF TEST:**

California Bureau of Home Furnishings and Thermal Insulation. Flammability test to Technical Bulletin 117- Section A, Part I, Resilient Cellular Materials.

The test was conducted at TÜV SÜD PSB's fire test laboratory located at No. 10 Tuas Avenue 10, Singapore 639134.



Laboratory:  
TÜV SÜD PSB Pte. Ltd.  
No.1 Science Park Drive  
Singapore 118221



LA-2007-0380-A  
LA-2007-0381-F  
LA-2007-0382-B  
LA-2007-0383-G  
LA-2007-0384-G  
LA-2007-0385-E  
LA-2007-0386-C  
LA-2010-0444-D

The results reported herein have been performed in accordance with the Laboratory's terms of accreditation under the Singapore Accreditation Council - Singapore Laboratory Accreditation Scheme. Tests/Calibrations marked 'Not SAC-SINGLAS Accredited' in this Report are not included in the SAC-SINGLAS Accreditation Schedule for our Laboratory.

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TUV®

DESCRIPTION OF SAMPLES:

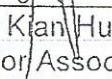
Twenty-five pieces of specimen, said to be "Cameltech Industries Sdn Bhd" (38kg/m<sup>3</sup> ±2kg/m<sup>3</sup>) Fire Retardant Foam for Furniture Industries comprising of Flexible Polyurethane Foam, each of nominal test size of 305mm x 76mm x 12.7mm (thick) were submitted. The Fire Retardant used was said to be UF500.

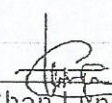
RESULTS:

Description	Unit	Result		Requirements
		Before ageing	After ageing	
<u>Flammability Test</u> <u>Section A, Part I</u>				
1. Number of specimens tested	-	5	5	-
2. Char length Individual readings	mm			
(a)		49	90	-
(b)		55	103	-
(c)		57	82	-
(d)		75	92	-
(e)		65	88	-
Average char length	mm (ins)	60.2 (2.4)	91.0 (3.6)	154.2 (6) max
Maximum char length of any individual specimen	mm (ins)	75.0 (3.0)	103.0 (4.1)	203.2 (8) max
3. Average time of after flame	sec.	0	0.4	5 max.
Maximum time of after flame of any individual specimen	sec.	0	01	10 max.
4. Average time of after glow	sec.	0	0	15 max.

CONCLUSION:

In accordance with the definitions specified in the Technical Bulletin 117, Section A, Part I, the test results show that the sample tested meets with the requirements of the test.

  
 Ong Kian Huat  
 Senior Associate Engineer

  
 Chan Lung Toa  
 Product Manager  
 (Fire Property)  
 Mechanical Centre

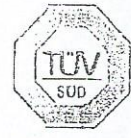


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5. Unless otherwise stated, the tests were carried out in TÜV SÜD PSB Pte Ltd, No.1 Science Park Drive Singapore 118221.

July 2011

Test Report No. 7191089886-MEC14/2-YWA  
dated 19 Jun 2014  
(221404655)



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Choose certainty.  
Add value.

**SUBJECT:**

Flame Retardancy test on "Cameltech Industries Sdn Bhd" Flexible Polyurethane Foam submitted by Cameltech Industries Sdn Bhd on 29 May 2014.

**TESTED FOR:**

Cameltech Industries Sdn Bhd  
No 2, Lorong Zainal Abidin 13  
Off Jalan Pendamar  
41200 Klang, Selangor  
Malaysia

**DATE OF TEST:**

16 Jun 2014 and 17 Jun 2014

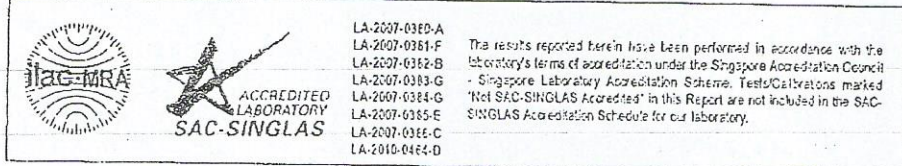
**PURPOSE OF TEST:**

California Bureau of Home Furnishings and Thermal Insulation. Flammability test to Technical Bulletin 117 - Section D, Part II, Resilient Cellular Materials - Smouldering Screening Test.

The test was conducted at TÜV SÜD PSB's fire test laboratory located at No. 10 Tuas Avenue 10, Singapore 639134.



Laboratory:  
TÜV SÜD PSB Pte. Ltd.  
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Singapore 118221



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Co. Reg.: 19C002667R

Regional Head Office:  
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3 Science Park Drive, #04-01/05  
The Franklin, Singapore 118223  
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DESCRIPTION OF SPECIMENS:

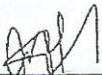
Eighteen pieces of specimen, said to be "Cameltech Industries Sdn Bhd" ( $38\text{kg/m}^3 \pm 2\text{kg/m}^3$ ) Fire Retardant Foam for Furniture Industries comprising of Flexible Polyurethane Foam were submitted. Nine pieces of specimen were of nominal test size of 183mm x 202mm x 50mm (thick) and another nine pieces were of nominal test size of 200mm x 100mm x 50mm (thick). The Fire Retardant used was said to be UF500.

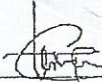
RESULTS:

Description	Unit	Results			Requirement
		Sample 1	Sample 2	Sample 3	
<u>Flammability Test</u> <u>Section D, Part II</u>					
1. Pre-test weight of foam	gm	113.5	113.5	115.0	-
2. Post-test weight of non-smouldered foam	gm	112.5	112.0	110.5	-
3. Percentage of non-smouldered foam	%	99.1	98.7	96.1	greater than 80

CONCLUSION:

In accordance with the definitions specified in the Technical Bulletin 117, Section D, Part II, the test results show that the sample tested meets with the requirements of the test.

  
Ong Kian Huat  
Senior Associate Engineer

  
Chan Lung Toa  
Product Manager  
(Fire Property)  
Mechanical Centre

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