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CLASSIFICATION REPORT FOR FIRE BEHAVIOUR OF A MATERIAL

(free translation of French test report Dossier J050331 – Document CEMATE/1)
Established according to the Department State Order dated on 21 November 2002

VALIDITY 5 YEARS FROM 03 June 2008

N° J050331 - CEMATE/2

and 4 pages appendices

Material submitted by	:	DICKSON SAINT CLAIR 415, Avenue de Savoie SAINT CLAIR DE LA TOUR 38357 LA TOUR DU PIN Cedex
Commercial trademark	:	LAC 650 SL
Brief description	:	
Composition	:	Polyester fabric 1100 dtex coated on the two sides with mass fire retarded polyvinyl chloride, and double-sided varnish finishing
Mass	:	(700 ± 10 %) g/m²
Thickness	:	(0,54 ± 10 %) mm
Colours	:	Various
Test report	:	**N° J050331 - CEMATE/2 dated on 03 June 2008**
Type of tests	:	Electric burner test, flame-spread test.
Classification	:	**M2**

Durability of classification (NF P 92-512 : 1986) **NON LIMITED A PRIORI**

Considering the criteria resulting from the tests described in the appendiced Test Report **N° J050331 - CEMATE/2**.

The indicated classification prejudges in no way the conformity of the materials commercialized to the samples submitted to the tests and can in no way be considered as a certificate of qualification.
This is not a product certification according to the L115-27 article of the consumption code and to the law dated on 3rd June 1994.

Note : Only full reproduction and by photocopy of the present classification report or the whole classification report and the appendiced lost report are authorized. It contains 5 pages.

Trappes, 03 June 2008

The Head of the Fire Behaviour Division

Alain SAINRAT

Laboratoire national de métrologie et d'essais
LNE

The Responsible for test

Antonia FAUSSAT

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Appendix page 1

TEST REPORT

(free translation of French test report)
Established according to the Department State Order dated on 21 November 2002

VALIDITY 5 YEARS FROM 03 June 2008

N° J050331 - CEMATE/2

1. PURPOSE OF TEST

The applicant supplied to the LNE a polyester fabric 1100 dtex coated on the two sides with mass fire retarded polyvinyl chloride, and double-sided varnish finishing in order to evaluate its fire behaviour and to determine its M classification.

2. ORIGIN AND CHARACTERISTICS OF SUBMITTED SAMPLES

. Test sponsor	:	DICKSON SAINT CLAIR
. Date of request	:	Order n° AC0020171 dated on 2008-04-23
. Producer	:	DICKSON SAINT CLAIR
. Distributor	:	
. Commercial trademark and reference	:	LAC 650 SL
. Characteristics attested by sponsor	:	
Global composition	:	Polyester fabric 1100 dtex coated with on the two sides mass fire retarded polyvinyl chloride, and double-sided varnish finishing
Mass	:	(700± 10 %) g/m²
Thickness	:	(0,54 ± 10 %) mm
Colours	:	Various
. Characteristics observed by LNE	:	Conform as those declared by the sponsor
Global composition	:	non controled
. DSC's keyword	:	Canvas

3. TEST PROCEDURES AND RESULTS

Appendix page 2	:	Test procedures, conditioning, classification, ageing.
Appendix page 3	:	Results.
Appendix page 4	:	Observations about tests.
Appendix page 4	:	Conclusion and classification

TEST PROCEDURES FOR CLASSIFICATION OF FLEXIBLE MATERIALS WITH THICKNESS LOWER THAN 5 MM AND FLEXIBLE FILTERS WITH ALL THICKNESSES

1. ELECTRIC BURNER TEST (NF P 92-503 : 1995)

This test consists in submitting the samples to the triple action of :

- a heat radiance
- hot gases sweeping the surface of sample and promoting the eventual effects of flame spread,
- a pilot flame applied at different times in order to ignite the material.

The decisive elements are the duration of lighting and the destroyed length measured from the bottom edge of the sample.

2. COMPLEMENTARY TESTS

FLAME SPREAD TEST (NF P 92-504 : 1995)
The standardized sample, vertically disposed on its edge, is submitted to a gas burner flame. Flame spread rate between 2 marks 25 cm apart is measured or in case of no flame spread, duration of flaming, flame spread length and flaming or non-flaming falling drips are noted.

3. SAMPLES CONDITIONING

The samples submitted with normal dimensions are kept in a conditioned enclosure (23 ± 2 °C and 50 ± 5 % RH) until constant mass. The mass is considered as constant when 2 successive weighings with a 24 h interval are not different for more than 0.1% or 0.1 g.

4. CLASSIFICATION OF MATERIALS (NF P 92 - 507 : 2004)

It is established further to the electric burner test (and eventually by complementary tests).

Materials are classified in categories M1, M2, M3, M4.

Only the materials classified M1 with the electric burner test (no lighting for mote than 5 seconds after the withdrawal of the pilot flame) can claim to the M0 classification .

5. DURABILITY

NONE

The test report is following next page

4. TESTS RESULTS

4.1. Electric burner test

	Sample 1	Sample 2	Sample 3	Sample 4	
Orientation	Warp - Right	Weft - Right	Warp - Wrong	Weft - Wrong	
Colour	Black	Grey	White	Black	
Piercing (hole)	Yes	Yes	Yes	Yes	
Lighting time (seconds)	- - - -	20 - - -	20 - - -	20 - - -	
Duration of lighting after the withdrawal of the pilot flame (seconds)	- - - -	70.4 - - -	147 - - -	59.2 - - -	
Duration of lighting higher than 5 s	Yes				
Spread effects of lighted dots outside of the charred area Distance higher than 25 cm after 5 min	No -	No -	No -	No -	
Flaming falling drips	No	No	No	No	
Non-flaming falling drips	No	No	No	No	
Smoke quantity	Medium	Medium	Medium	Medium	Smoke colour : White and grey, with black carbon
Destroyed or burned length (cm)	15,0	17,0	18,6	15,0	Average length L = 16,4
Average length within 0 and 35 cm	Yes				
Average length within 35 and 60 cm	No				

4.2. Complementary tests

Flame spread test

	Sample 1
Colour	Black
Flaming after the withdrawal of the ISO 6940 burner	No
Duration of flaming (seconds)	0
Max. duration ≤ 2 s	Yes
Max. duration ≤ 5 s	Yes
Non-flaming falling drips	No
Flaming falling drips	No

The test report is following next page

Appendix page 4

5. OBSERVATIONS ABOUT TESTS

Date for receipt of samples : 2008-04-25

Date for the tests : 2008-05-22

Electric burner test

Sample 1 : The material burns in pilot flame during first application, with black carbon white and grey smokes, but there are not persistent flames after pilote flame removal

Samples 2, 3 and 4 : The material pierces and ignites at 20 s, 20 s, 20 s and 20 s and persists, with black carbon white and grey smokes, during 70,4 s, 147 s, and 59,2 s after pilot flame removal.

Flame spread test

After burner removal, there is no persistence nor propagation of flame.

6. CONCLUSION AND CLASSIFICATION

In view of the results, the material with the characteristics described in the first page of this test report

has the classification **M2**.

7. CLASSIFICATION DURABILITY

Non limited a priori

Trappes, 03 June 2008

The Head of the
Fire Behaviour Division

Alain SAINRAT

Laboratoire national de métrologie et d'essais
LNE

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A. Faussat

Antonia FAUSSAT

Attention is attracted to the fact that the results obtained with the samples described in the present document are not generalizable without justification of the representativity of samples and tests.