

Le progrès, une passion à partager

LABORATOIRE DE TRAPPES
29 avenue Roger Hennequin - 78197 Trappes Cedex
Tél. : 01 30 69 10 00 - Fax : 01 30 69 12 34**CLASSIFICATION REPORT FOR
FIRE BEHAVIOUR OF A MATERIAL**

(free translation of French test report)

Established according to the Department State Order dated on 21 november 2002

VALIDITY 5 YEARS FROM 10 September 2012**N°N080345 - DE/2**

and 4 pages appendices

Material submitted by : GALE PACIFIC SPECIAL TEXTILES (NINGBO) Ltd
777#, Hengshan West Road, Beilun, Ningbo
315800 ZHEJIANG - P.R. CHINA

Commercial trademark : SAFRSHADE

Brief description : **Composition :**
Shade sail made out of high density polyethylene flame
retarded in the mass
Mass : (300 ± 20) g/m²
Thickness : (1,45 ± 10 %) mm
Colours : Beige

Test report : N°N080345 - DE/2 dated on 10 September 2012

Type of tests : Electric burner test, flame spread test,

Classification : **M1**

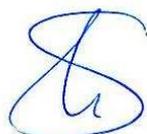
Durability of classification (NF P 92-512 : 1986) NOT LIMITED IN THEORY

Considering the criteria resulting from the tests described in the appended Test Report N°N080345 - DE/2 .

The indicated classification prejudices 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 appended lost report are authorized. **It contains 5 pages.**

Trappes, 10 September 2012

**The Head of Fire Behaviour
and Fire Safety Department**

Sophie THIEFRY

**The Responsible for Test**

Antonia FAUSSAT

Accréditation
N° 1-0606
Portée disponible
sur www.cofrac.fr**Laboratoire national de métrologie et d'essais**Établissement public à caractère industriel et commercial • Siège social : 1, rue Gaston Boissier - 75724 Paris Cedex 15 • Tél. : 01 40 43 37 00
Fax : 01 40 43 37 37 • E-mail : info@lne.fr • Internet : www.lne.fr • Siret : 313 320 244 00012 • NAF : 743 B • TVA : FR 92 313 320 244
Barclays Paris Centrale IBAN : FR76 3058 8600 0149 7267 4010 170 BIC : BARCFRPP

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 10 September 2012

N°N080345 - DE/2

1. PURPOSE OF TEST

The purpose of tests to which this report relates is to determine the classification of materials, in accordance with the stipulations in the order from the Ministère de l'Intérieur, dated 21 November 2002 relating to their reaction to fire.

2. ORIGIN AND CHARACTERISTICS OF SUBMITTED SAMPLES

. Test sponsor	:	GALE PACIFIC SPECIAL TEXTILES (NINGBO) Ltd
. Date of order	:	Accepted quotation dated on 2012-08-14
. Producer	:	GALE PACIFIC SPECIAL TEXTILES (NINGBO) Ltd
. Commercial trademark and reference	:	SAFRSHADE
. Characteristics attested by sponsor	:	
Global composition	:	Shade sail made out of high density polyethylene flame retarded in the mass
Mass	:	(300 ± 20) g/m ²
Thickness	:	(1,6 ± 0,5) mm
Colours	:	Beige
. Characteristics observed by LNE	:	Conform as those declared by the sponsor
Global composition	:	non controled
Mass	:	(300 ± 20) g/m ²
Thickness	:	(1,45 ± 10 %) mm
Colours	:	Beige

3. TEST PROCEDURES AND RESULTS

The test report is following next page

**Only full reproduction of the complete document is authorised.
For any difficulties in the interpretation of this document, please refer to original text
in French (Dossier N080345 - Document DE/1) which is the only authentic one.
It contains 5 pages.**

**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 more 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

Appendix page 3

4. TESTS RESULTS

4.1. Electric burner test

	Sample 1	Sample 2	Sample 3	Sample 4												
Orientation	Warp - Right side	Warp - Right side	Warp - Wrong side	Warp - Wrong side												
Colour	Beige	Beige	Beige	Beige												
Piercing (hole)	Yes	Yes	Yes	Yes												
Lighting time (secondes)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Duration of lighting after the withdrawal of the pilot flame (seconds)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Duration of lighting higher than 5 s.	No															
Flaming falling drips or fragments	No	No	No	No												
Non-flaming falling drips	No	No	No	No												
Smoke quantity	Low	Low	Low	Low	Smoke colour : Grey											
Destroyed or burned length (cm)	23,0	20,0	21,0	20,0	Average length L = 21,0											
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	Sample 2	Sample 3	Sample 4	
Colour	Beige	Beige	Beige	Beige	
Flaming after the withdrawal of the ISO 6940 burner	No	No	Yes	No	
Duration of flaming (seconds)	0	0	1,6	0	Max. duration : 1,6
Max. duration ≤ 2 s	Yes				
Max. duration ≤ 5 s	Yes				
Flaming falling drips or fragments	No	No	No	No	
Non-flaming falling drips	No	No	No	No	

5. **OBSERVATIONS ABOUT TESTS**

Date for receipt of samples : 2012-08-20

Date of tests :2012-09-04

Electrique burner test

Samples 3 and 4 : The material ignites and pierces at 20 seconds and persists, with grey smokes, during less than 5 seconds after pilot flame removal

Flame spread

After burner removal, there are persistent flames during 1,6 seconds.

6. **CONCLUSION AND CLASSIFICATION**

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

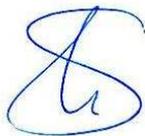
has the classification **M1.**

7. **CLASSIFICATION DURABILITY**

NON LIMITED IN THEORY

Trappes, 10 September 2012

The Head of Fire Behaviour
and Fire Safety Department



Sophie THIEFFRY



The Responsible for Test



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.