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2022100641



**Report No:** 2022100641  
**Applicant:** ARISTIDE NV-SA  
Nachtegalstraat 109. 2550 KONTICH/BELGIUM  
**Contact Person :** Pieter-Jan Debusschere  
**Contact Telephone :** 32 (0)3 457.99.11  
**Contact e-mail:** purchase@aristide.be  
**Sample Accepted on:** 17.10.2022  
**Report Date:** 20.10.2022  
**Total number of pages:** 7 (Pg)  
**Sample ID:** ELISE

|   | TEST   | METHOD          | RESULT |
|---|--|-----------------|--------|
| * | Safety against fire - Building materials - Reaction to fire tests -<br>Electrical burner test for flexible materials | NF P92-503:1985 | PASSED |
| * | Safety against fire - Building materials - Reaction to fire tests -<br>Flame retention test and flame spread rate    | NF P92-504:1995 | PASSED |

M1

This report can be used as a substitute for conformity to standards, and can be used in tenders and product brochures.



Seal

Customer Representative  
Merve Nur KIRVELI

Laboratory Manager  
Merve ÖZLÜ

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**Environment**

The requirements and standards apply to equipment intended for use in :

|   |   |
|---|---|
| X | Residential (domestic) environment          |
| X | Commercial and light-industrial environment |
| X | Industrial environment                      |
| X | Medical environment                         |



**Procedure**

NF-P92-503 to 507 standard- FR fabric test for French contract industry (also known as M1)

**NF-P92-503: Safety against fire - Building materials - Reaction to fire tests - Electrical burner test for flexible materials**

A fabric sample is placed in a metal frame above an extreme heat source at an angle of 30°. A flame is generated from the heat source directly on the surface of the fabric.

The following parameters are observed:

- How long the fabric continues to burn after the flame is removed (after flame)
- Are there burning droplets falling from the burning fabric
- Measure the length and width of the burn damage after the flame is distinguished,

**NF-P92-504: Safety against fire - Building materials - Reaction to fire tests - Flame retention test and flame spread rate**

This test must be performed if the fabric contracts or melts during the NF-P92-503 test.

A fabric sample is placed vertically in a metal frame. A flame is generated and is run horizontally along the whole surface of the fabric.

The following parameters are observed:

- How long the fabric continues to burn after the flame is removed (after flame)
- Are there burning droplets falling from the burning fabric.

**NF-P92-505: Safety against fire - Building materials - Reaction to fire tests - Drip test for thermal melting materials**

This test must only be performed if there are burning droplets falling during the NF-P92-503 and NF-P92-504 test.

A fabric sample is placed horizontally under a metal sift. Burning heat is generated on the fabric causing burning droplets to fall from the fabric onto a cotton wool pad directly beneath it.

The following parameter is observed:

- Do the burning droplets ignite the cotton wool.

French standards have also introduced a classification between M1 and M4. According to this,

- M1 - Non-flammable  
M2 - Low flammability  
M3 - Moderately flammable  
M4 - Flammable





## Requirements

Following completion of the NF-P92-503 to 505, the fabric can be categorized as NF-P92-507 and classified from M1 to M4. M1 being the highest standard of FR and M4 being the lowest:

### M1:

- NF-P92-503 the after flame is max 5 seconds
- NF-P92-503 the width and length of burn damage is max 250 mm
- NF-P92-504 the after flame is max 2 seconds
- NF-P92-503 to 505 there are no burning droplets

### M2:

- NF-P92-504 the after flame is max 5 seconds
- NF-P92-503 the width and length of burn damage is max 350 mm
- NF-P92-503 to 505 there are no burning droplets

### M3:

- NF-P92-503 the width and length of burn damage is max 90 mm
- NF-P92-503 to 505 there are no burning droplets

### M4:

- If the fabric does not meet the criteria of M1,M2 or M3, it is automatically classified as M4= not flame retardant/resistant

**RESULTS**

- The test specimens have not been cleaned nor submitted to an accelerated ageing procedure.

**Conditioning**

minimum 7 days at (23 ± 2) °C and (50 ± 5) % RH or until constant mass is achieved

**ELECTRIC BURNER TEST (NF P92-503)**

|  | Sample 1 | Sample 2 | Sample 3 | Sample 4 |                             |
|--|----------|----------|----------|----------|-----------------------------|
| Piercing   | No       | No       | No       | No       |                             |
| Lighting time (s)                                  | -        | -        | -        | -        |                             |
| Duration of flaming after pilot flame removal (s)  | -        | -        | -        | -        |                             |
| Spread of glowing dots beyond the char area        | -        | -        | -        | -        |                             |
| Fall of flaming droplets or debris                 | No       | No       | No       | No       |                             |
| Melting behavior, fall of non-flaming molten drips | Yes      | Yes      | Yes      | Yes      |                             |
| Destroyed or burned length (mm)                    | 90       | 91       | 92       | 91       | Average length<br><b>91</b> |

|                            |     |
|----------------------------|-----|
| Ignition duration ≤5s      | Yes |
| Average Length < 250 mm    | Yes |
| Inflamed falling drippings | No  |

\* No flames were observed in the sample.



**FLAME SPREAD TEST (NF P92-504)**

|  | Sample 1 | Sample 2 | Sample 3 | Sample 4 |
|--|----------|----------|----------|----------|
| Duration of flaming after ISO 6940 burner removal              | No       | No       | No       | No       |
| Material's maximum duration of flaming inferior or equal to 2s | Yes      |          |          |          |
| Material's maximum duration of flaming inferior or equal to 5s | No       |          |          |          |
| Fall of not flaming molten drips                               | yes      | yes      | yes      | yes      |
| Fall of flaming molten drips                                   | No       | No       | No       | No       |

Each test has been carried out with a flame application time of 5s

The test specimens have not been cleaned nor submitted to an accelerated ageing procedure.

Conditioning minimum 7 days at (23 ± 2) °C and (50 ± 5) % RH or until constant mass is achieved

|   | First ignition (s) | non-flaming debris | flaming debris | ignition cotton wool |
|---|--------------------|--------------------|----------------|----------------------|
| 1 | *                  | yes                | no             | no                   |
| 2 | *                  | yes                | no             | no                   |
| 3 | *                  | yes                | no             | no                   |
| 4 | *                  | yes                | no             | no                   |

\* no ignition

**Conclusion :** **M1**

**Overall Rating : PASS**



**Sample Image**



**\*\*\*\* End Of Report \*\*\*\***



PR33-F01/08.10.2015/Rev:17.01.2017-R01

Page 7 / 7

Merkez Mh, Dr Sadık Ahmet Cd, No 38 / 44 D BAĞCILAR / İSTANBUL

Tel: 0212 702 20 10 Fax: 0212 909 21 10

Web: [www.laboratuvar.com](http://www.laboratuvar.com) E-mail: [info@laboratuvar.com](mailto:info@laboratuvar.com)