

European M1
Fire Rating

soft collection FR 1057D Tyvek textile
products softwall + softblock

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soft collection FR Tyvek 1057D textile products European M1 fire rating

molo soft collection FR Tyvek 1057D textile products are completely fire retardant, and will not maintain a flame. FR Tyvek 1057D textile softwall + softblock have achieved the European standards M1 and B1. These ratings are consistent with use in all types of occupancies. All products should always be kept away from any open flame or heat source to avoid possible damage.

CLASSIFICATION REPORT

Established according to the article 5 of the Department State Order dated 21 November 2002

VALIDITY 5 YEARS from 30 June 2021

N° P213221 - DEC/2

and appendix of 5 pages

Material submitted by MOLO Design
 1470 Venables street
 Vancouver BC, V5L 2G7
 Canada

Commercial trademark: FR 105 7D, coated on two sides for soft collection

Bried description:
Global composition: Non-woven fabric based on polyethylene, plastic and fireproofed on the surface
End-use: Space partition
Mass: (88,0 ± 8,8) g/m² (determined by LNE)
Thickness: (0,160 ± 0,016) mm (determined by LNE)
Colour: White

Test report: N° P213221 - DEC/2 dated 30 June 2021

Type of tests: Determination of classification according to NF P 92-507 (February 2004)
 Electrical burner test according to NF P 92-503 (December 1995), Flame persistence test and speed of the spread of flame according to NF P 92-504 (December 1995)

Classification:

M1

VALID FOR ANY APPLICATION FOR WHICH THE PRODUCT IS NOT SUBJECT TO AM18 ARTICLE FOR PULIC BUILDINGS REGULATION

Durability of classification (NF P 92-512 : 1986) : LIMITED TO 1 YEAR STARTING FROM ITS IMPLEMENTATION IN A REGULATED BUILDING (MATERIALS USED UNDER SHELTER FROM WEATHER)

In view of criteria resulting from the tests described in the appended Test Report N° P213221 - DEC/2. To determine the classification, uncertainty on the results has not been taken into account.

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.

Is allowed only the integral reproduction of either this classification report consisting of this unique page, or the whole classification report with the annexed test report consisting of **6 pages**.

Trappes, 30 June 2021



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

Romuald GORJUP

Traduction du Document P213221 - DEC/1 réalisée par le LNE. La version en langue française fait foi

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TEST REPORT

Established according to the article 5 of the Department State Order dated on 21 November 2002.

VALIDITY 5 YEARS FROM 30 June 2021

N° P213221 - DEC/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 on 21 November 2002 relating to their reaction to fire.

2. PROVENANCE ET CARACTERISTIQUES DES ECHANTILLONS

Test requested by : MOLO Design
Date and reference of order : Good for agreement on proforma n° DEV2106816-V1 dated 7/06/2021
Producer : MOLO Design
Canada
Trademark (commercial reference) : FR 105 7D, coated on two sides for soft collection
Global composition : Non-woven fabric based on polyethylene, plastic and fireproofed on the surface

Characteristics attested by sponsor :

Mass : No information given
Thickness : No information given
Colour : White

Characteristics determined by LNE :

Mass : $(88,0 \pm 8,8)$ g/m²
Thickness : $(0,160 \pm 0,016)$ mm
Colour : White

report to be followed on next page



3. TEST CONDITIONS

Receipt of samples: 11/06/2021

Samples conditioning prior to tests:

Samples – possibly placed on their substrate – are conditioned in a (23 ± 2) °C and (50 ± 5) % relative humidity atmosphere during seven days or until constant mass is achieved (like for materials highly thick, or still humid when delivered,).
 Mass is considered as constant when two successive weighings with a 24 h interval do not differ by more than 0,1 % or 0,1 g (whichever is greatest).

Test performed on: From 22 to 29/06/2021

4. RESULTS

4.1. ELECTRICAL BURNER TEST ACCORDING TO NF P 92-503 (DECEMBER 1995)

4.1.1. Determination of the most adverse mode for testing

Orientation	Sample 1				Sample 2			
	Vertical Undifferentiated				Horizontal Undifferentiated			
Color	White				White			
Mass (g)	9,63				9,44			
Perforation	Yes				Yes			
Lighting time (s)	–				–			
Duration of flaming after pilot flame removal (s)	–				–			
Spread of glowing dots beyond the char area	–				–			
Burned lenght beyond 25 cm after 5 min	–				–			
Fall of flaming droplets or debris	No				No			
Melting behavior, fall of non-flaming molten drips	No				No			
Destroyed or burned lenght (mm)	210				225			
Destroyed or burned width beyond 450 mm (mm)	–				–			

4.1.2. Pursuance of tests in the most adverse mode

	Sample 3	Sample 4	Sample 5	Sample 6	
Orientation	Horizontal Undifferentiated	Horizontal Undifferentiated	Horizontal Undifferentiated	Horizontal Undifferentiated	
Color	White	White	White	White	
Mass (g)	9,44	9,32	9,65	9,81	
Perforation	Yes	Yes	Yes	Yes	
Lighting time (s)	–	–	–	–	
Duration of flaming after pilot flame removal (s)	–	–	–	–	
Spread of glowing dots beyond the char area	–	–	–	–	
Burned length beyond 25 cm after 5 min	–	–	–	–	
Fall of flaming droplets or debris	No	No	No	No	
Melting behavior, fall of non-flaming molten drips	No	No	No	No	
Destroyed or burned length (mm)	225	200	185	240	Average length 213
Destroyed or burned width beyond 450 mm (mm)	–	–	–	–	Average width –

Ignition duration ≤ 5 s	Yes
Average length < 350 mm	Yes
Average width < 90 mm	Yes
Fall of flaming droplets	No

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4.2. FLAME PERSISTENCE TEST ACCORDING TO NF P 92-504 (DECEMBER 1995)**4.2.1. Determination of the most adverse mode for testing**

	Sample 1	Sample 2
Direction	Vertical Undifferentiated	Horizontal Undifferentiated
Color	White	White
Mass (g)	9,83	9,70
Test specimen's maximum duration of flaming (s)	0,7	0
Material's maximum duration of flaming inferior or equal to 2 s	Yes	
Material's maximum duration of flaming inferior or equal to 5 s	Yes	
Fall of not flaming molten drips	No	No
Fall of flaming molten drips	No	No

4.2.2. Pursuance of tests in the most adverse mode

	Sample 3	Sample 4	Sample 5	Sample 6
Direction	Vertical Undifferentiated	Vertical Undifferentiated	Vertical Undifferentiated	Vertical Undifferentiated
Color	White	White	White	White
Mass (g)	9,83	9,47	9,61	9,60
Test specimen's maximum duration of flaming (s)	0,7	0,7	1,7	0,5
Material's maximum duration of flaming inferior or equal to 2 s	Yes			
Material's maximum duration of flaming inferior or equal to 5 s	Yes			
Fall of not flaming molten drips	No	No	No	No
Fall of flaming molten drips	No	No	No	No

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5. OBSERVATIONS ABOUT TESTS

At the end of the electrical burner tests, a perforation without inflammation of the sample has been observed. Consequently, complementary flame persistence tests have been performed.

Trappes, 30 June 2021



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

Romuald GORJUP

The results, which are quoted, are only applicable to the sample, the product or material submitted to LNE and which is fully described in this document.

**Traduction du document (Document P213221 DE/1) réalisée par le LNE.
La version en langue française fait foi.**