

CLASSIFICATION REPORT

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

VALIDITY 5 YEARS from 20 September 2023

N° P233888 - DEC/2

and appendix of 3 pages

Commercial trademark: Hardcast AAA7410

Brief description:

Global composition : Non-flame retardant material composed of :
Layer 1 : Aluminium (0,04 mm - 113 g/m²)
Layer 2 : Butyl adhesive (0,89 mm - 1174 g/m²)

End-use: Sealing of ventilation ducts.

Mass per unit area: (1300 ± 5%) g/m²

Thickness (1,00 ± 10%) mm

Colour: Grey/Aluminium

Test report: N° P233888 - DEC/2 dated 20 September 2023

Type of tests: Determination of classification according to NF P 92-507 (February 2004)
Radiation test according to NF P 92-501 (December 1995), saw cut and draughtproofing

Classification: **M1** TAPED ON 15/10 mm THICK STEEL SHEET

VALID FOR ANY APPLICATION FOR WHICH THE PRODUCT IS NOT SUBJECT TO CE MARKING

Durability of classification (NF P 92-512 : 1986): A PRIORI UNLIMITED

In view of criteria resulting from the tests described in the appended Test Report N° P233888 - 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 **4 pages**.

Trappes, September 20, 2023



The Head of Fire Behaviour and Fire Safety
Department

Thibaut CORNILLON

Traduction du Document P233888 - 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 20 September 2023

N° P233888 - 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. ORIGIN AND CHARACTERISTICS OF SAMPLES

Characteristics attested by sponsor :

The validity of the results may be affected by this information. For these results, LNE's responsibility is limited to its contribution to their elaboration.

Date and reference of order : Your agreement on quotation n° DEV2306462-

Trademark (commercial reference) : Hardcast AAA7410

Global composition : Non-flame retardant material composed of :
Layer 1 : Aluminium (0,04 mm - 113 g/m²)
Layer 2 : Butyl adhesive (0,89 mm - 1174 g/m²)

Mass per unit area : (1300 ± 5%) g/m²

Thickness : (1,00 ± 10%) mm

Colour : Grey/Aluminium

Caractéristiques déterminées par LNE :

Mass per unit area : (13200 ± 1400) g/m² (with substrate)

Thickness : (2,50 ± 0,25) mm (with substrate)

Colour : Grey/Aluminium



3. TEST CONDITIONS

Receipt of samples: 31/08/2023

Samples conditioning prior to tests:

Samples – possibly placed on their substrate – are conditioned in a $(23 \pm 2) ^\circ\text{C}$ and $(50 \pm 5) \%$ 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: 18/09/2023

4. RESULTS

4.1. HEAT RADIATION TEST ACCORDING TO NF P 92-501 (DECEMBER 1995)

	Sample 1	Sample 2	Sample 3	Sample 4	
	–	–	–	–	
Mass (g)	1587,20	1592,70	1567,10	1592,40	
Perforation	No	No	No	No	
Exposed side lighting time : ti1 (s)	200	177	209	191	
Non exposed side lighting time : ti2 (s)	–	–	–	–	
Total flame height ΣH (cm)	36	39	27	30	
Total duration of flaming $\Sigma \Delta T$	265	279	182	192	Mean Value =
$Q = \frac{100 \times \Sigma H}{ti \sqrt{\Sigma \Delta T}}$	1,1	1,3	1	1,1	1,1
Not flaming molten drips	No	No	No	No	
No flaming molten drips	No	No	No	No	

report to be followed on next page

5. OBSERVATIONS ABOUT TESTS

In accordance with standard NF P 92-507 §3.2.9.a), the tests were carried out with a saw cut and edge sealing.

Trappes, September 20, 2023



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

Thibaut Cornillon

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 P233888 DEC/1) réalisée par le LNE.
La version en langue française fait foi.**