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CLASSIFICATION

CLASSIFICATION OF REACTION TO FIRE PERFORMANCE IN ACCORDANCE WITH EN 13501-1:2018

Report no.	2021-Efectis-R000836
Sponsor	Avery Dennison Matérials Belgium Sprl Boulevard Kennedy 7060 SOIGNIES BELGIUM
Product name	Mactac LF 10700 Series
Prepared by	Efectis Nederland BV
Notified body no.	1234
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1. INTRODUCTION

1.1 PRODUCT NAME

This classification report defines the classification assigned to **Mactac LF 10700 Series** in accordance with the procedures given in EN 13501-1:2018.

1.2 STANDARD REVISION INFORMATION

The assessment of the editorial and technical alterations between:

- The issues 2010/C1:2011 and respectively the 2020 version of the test standard EN ISO 11925-2;
- The issues 2010 and A1:2014 and respectively the 2020 version of the test standard EN 13823.

1.3 ASSESSMENT INFORMATION

Efectis compared the two versions of the EN ISO 11925-2 standard and concluded that the results for this product from the tests according to the EN ISO 11925-2:2010/C1:2011 standard are still valid according to the EN ISO 11925-2:2020 standard. Therefore, this report can be used for classification according to EN 13501-1:2018.

Efectis compared the two versions of the EN 13823 standard and concluded that the results for this product from the tests according to the EN 13823:2010+A1:2014 standard are still valid according to the EN 13823:2020 standard. Therefore, this report can be used for classification according to EN 13501-1:2018.

2. DETAILS OF CLASSIFIED PRODUCT

2.1 GENERAL

The product, **Mactac LF 10700 Series**, is defined as a protective overlaminating film for digital printed images for indoor and outdoor use.

2.2 MANUFACTURER

Avery Dennison Graphics & Reflective Solutions P.O. Box 28 2300 AA LEIDEN THE NETHERLANDS

2.3 PRODUCT DESCRIPTION

Product description:

- Film : premium quality 30 micron clear cast vinyl;
- Adhesive: 20 micron, permanent, acrylic based;
- Backing paper: white bleached Kraft paper, 130 g/m².

The product has a total thickness of 50 μ m and a mass per unit area of approx. 80 g/m² (measured on product).

See also Appendix 'Product data sheet' in test reports.



3. STANDARDS, REPORTS, RESULTS AND CRITERIA IN SUPPORT OF THIS CLASSIFICATION

3.1 APPLICABLE (PRODUCT) STANDARDS

EN ISO 11925-2:2010 / 2020	Reaction to fire tests - Ignitability of products subjected to direct impingement of flame - Part 2: Single-flame source test
EN 13823:2014 / 2020	Reaction to fire tests for building products - Building products, excluding floorings exposed to the thermal attack by a single burning item
EN 13238:2010	Reaction to fire tests for building products - Conditioning procedures and general rules for selection of substrates
EN 13501-1:2018	Fire classification of construction products and building elements Part 1: Classification using data from reaction to fire tests

3.2 REPORTS

Name of Laboratories	Name of sponsor	Report ref. no.	Test method
Efectis Nederland BV THE NETHERLANDS	Avery Dennison Graphics & Reflective Solutions THE NETHERLANDS	2020-Efectis- R000804 2020-Efectis- R000798	EN ISO 11925-2:2010 EN 13823:2014

3.3 TEST RESULTS

			Results	
Test method and Parameter test number	No. tests	Continuous parameter – maximum	Compliance with parameters	
EN ISO 11925-2				
surface flame		6	30	-
impingement Ignition of filter paper	6	-	Compliant	
Edge flame	Fs ≤150 mm	6	30	-
Impingement	Ignition of filter paper	0	-	Compliant



	Parameter			Results	
Test method and test number			No. tests	Continuous parameter – mean (m)	Compliance with parameters
EN 13823					
	FIGRA _{0.2MJ}	[W/s]		0	-
	FIGRA _{0.4MJ}	[W/s]		0	-
	THR _{600s}	[MJ]		0.5	-
	LFS < edge			-	Compliant
	SMOGRA	[m ² /s ²]	3	0.0	-
	TSP _{600s}	[m²]		33	-
	Flaming debris - flaming ≤ 10 s - flaming > 10 s			-	Compliant Compliant

3.4 CLASSIFICATION CRITERIA

Fire classification of construction products and building elements Excluding floorings and linear pipe thermal insulation products				
Classification crit	Classification criteria			
Class Test method(s)	В	С	D	
EN ISO 11925-2 $F_s \le 150$ mm within 60 sExposure = 30 sIgnition of the paper in EN ISO 11925-2 results in a d2 classification.				
EN 13823	$ FIGRA_{0.2 \text{ MJ}} \leq 120 \text{ W/s} \\ LFS < edge of specimen \\ THR_{600s} \leq 7.5 \text{ MJ} $		FIGRA _{0.4 MJ} ≤ 750 W/s	
Additional classification				
Smoke production $s1 = SMOGRA \le 30 \text{ m}^2/\text{s}^2$ and $TSP_{600s} \le 50 \text{ m}^2$; $s2 = SMOGRA \le 180 \text{ m}^2/\text{s}^2$ and $TSP_{600s} \le 200 \text{ m}^2$; $s3 = \text{ not s1 or s2}$				
Flaming Droplets/particlesd0 = no flaming droplets/ particles in EN 13823 within 600 s; d1 = no flaming droplets/ particles persisting longer than 10 s in EN 13823 within 600 s; d2 = not d0 or d1.				

4. CLASSIFICATION AND FIELD OF APPLICATION

4.1 REFERENCE OF CLASSIFICATION

This classification has been carried out in accordance with clause 11 of EN 13501-1:2018.





4.2 CLASSIFICATION

The product, **Mactac LF 10700 Series**, in relation to its reaction to fire behaviour is classified: B

The additional classification in relation to smoke production is:

s1

The additional classification in relation to flaming droplets / particles is:

d0

Reaction to fire classification: B - s1, d0

4.3 FIELD OF APPLICATION

This classification is valid for the following product parameters:

Thickness	50 μm
Surface density	80 g/m²
Other properties	Film: premium quality 30 micron clear cast vinyl Adhesive: permanent, acrylic based Backing paper: white bleached Kraft paper, 130 g/m²

This classification is valid for the following end use applications:

Substrate	Non-combustible (class A1/A2 according to EN 13238:2010)
Application	To be used as over laminate film
Methods and means of fixing	Glued, using products adhesive
Joints	Yes
Other aspects of end use conditions	Wall covering

4.4 DURATION OF THE VALIDITY OF THIS CLASSIFICATION REPORT

Consult classification standard and national laws and regulations for limitations on the period of validity of the classification.



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5. LIMITATIONS

This classification document does not represent type approval or certification of the product.

The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide for traceability of the samples tested.

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Alock

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