Efectis Nederland BV
P.O. Box 554 | 2665 ZN Bleiswijk
Brandpuntlaan Zuid 16 | 2665 NZ Bleiswijk
The Netherlands
+31 88 3473 723
nederland@efectis.com

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

Classification no.	2021-Efectis-R000720
Sponsor	Avery Dennison Belgium Boulevard J. F. Kennedy, 1 7060 SOIGNIES BELGIUM
Product name	**Mactac WW 100 Pro**
Prepared by	Efectis Nederland BV
Notified body no.	1234
Author(s)	G. van der Lee M.Sc. A.H.L.M. Zwinkels B.Sc. A.J. Lock
Project number	ENL-21-000272
Date of issue	June 2021
Number of pages	6

1. INTRODUCTION

This classification report defines the classification assigned to **Mactac WW 100 Pro** in accordance with the procedures given in EN 13501-1:2018.

2. DETAILS OF CLASSIFIED PRODUCT

2.1 GENERAL

The product, **Mactac WW 100 Pro**, is defined as a wall covering.

2.2 MANUFACTURER

Avery Dennison Belgium
Boulevard J. F. Kennedy, 1
7060 SOIGNIES
BELGIUM

2.3 PRODUCT DESCRIPTION

According to the sponsor the product is from inside out composed of a calendered self-adhesive printing media. The face material is a 55 µm white gloss conformable PVC. The adhesive is an acrylic High Tack permanent grey solvent.

The product has a total thickness of approx. 260 µm, and a mass per unit area of approx. 266 g/m^2 (Cf. Technical Data Sheet of the product in test reports Appendix).

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

3.1 APPLICABLE (PRODUCT) STANDARDS

EN ISO 11925-2:2020	Reaction to fire tests - Ignitability of products subjected to direct impingement of flame - Part 2: Single-flame source test
EN 13823:2020	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 Belgium BELGIUM	2021-Efectis-R000719 2021-Efectis-R000682	EN ISO 11925-2:2020 EN 13823:2020

3.3 TEST RESULTS

Test method and test number	Parameter	No. tests	Results	
			Continuous parameter – maximum	Compliance with parameters
EN ISO 11925-2 – tested on steel sheet				
Surface flame impingement	Fs ≤150 mm	6	25	-
	Ignition of filter paper		-	Compliant
Edge flame Impingement	Fs ≤150 mm	6	25	-
	Ignition of filter paper		-	Compliant
EN ISO 11925-2 – tested on plaster board				
Surface flame impingement	Fs ≤150 mm	6	35	-
	Ignition of filter paper		-	Compliant
Edge flame Impingement	Fs ≤150 mm	6	35	-
	Ignition of filter paper		-	Compliant

Test method and test number	Parameter	No. tests	Results	
			Continuous parameter – mean (m)	Compliance with parameters
EN 13823				
tested on steel sheet	$FIGRA_{0.2MJ}$ [W/s]	3	41	-
	$FIGRA_{0.4MJ}$ [W/s]		0	-
	THR_{600s} [MJ]		0.4	-
	LFS < edge		-	Compliant
	SMOGRA [m^2/s^2]		0	-
	TSP_{600s} [m^2]		0	-
	Flaming debris - flaming ≤ 10 s - flaming > 10 s		 - -	 Compliant Compliant

Test method and test number	Parameter	No. tests	Results	
			Continuous parameter – mean (m)	Compliance with parameters
EN 13823				
tested on plaster board	$FIGRA_{0.2MJ}$ [W/s]	3	114	-
	$FIGRA_{0.4MJ}$ [W/s]		28	-
	THR_{600s} [MJ]		1.2	-
	LFS < edge		-	Compliant
	SMOGRA [m^2/s^2]		7.7	-
	TSP_{600s} [m^2]		49	-
	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 criteria			
Class Test method(s)	**B**	**C**	**D**
EN ISO 11925-2 Exposure = 30 s	F_s ≤ 150 mm within 60 s Ignition of the paper in EN ISO 11925-2 results in a d2 classification.		
EN 13823	$FIGRA_{0.2\ MJ}$ ≤ 120 W/s LFS < edge of specimen THR_{600s} ≤ 7.5 MJ	$FIGRA_{0.4\ MJ}$ ≤ 250 W/s LFS < edge of specimen THR_{600s} ≤ 15 MJ	$FIGRA_{0.4\ MJ}$ ≤ 750 W/s
Additional classification			
Smoke production	**s1** = SMOGRA ≤ 30 m^2/s^2 and TSP_{600s} ≤ 50 m^2 ; **s2** = SMOGRA ≤ 180 m^2/s^2 and TSP_{600s} ≤ 200 m^2; **s3** = not s1 or s2		
Flaming Droplets/particles	**d0** = 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 WW 100 Pro**, 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	Total approx. 260 µm Face material approx.55 µm PVC
Surface density	approx. 266 g/m^2
Other properties	Product composition as described in §2.3

This classification is valid for the following end use applications:

Substrate	Non-combustible (class A1/A2 according to EN 13238:2010)
Air gap	40 mm
Methods and means of fixing	Glued, using the acrylic permanent adhesive of the product
Joints	Yes vertical only..

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.

5. LIMITATIONS

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

G. van der Lee M.Sc.
Junior Project leader Reaction to Fire

A.H.L.M. Zwinkels B.Sc.
Project leader Reaction to Fire

A.J. Lock
Manager Testing Reaction to Fire