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CLASSIFICATION OF REACTION TO FIRE PERFORMANCE IN ACCORDANCE WITH EN 13501-1:2007+A1:2009

Classification no.	2015-Efectis-R000411 [Rev.1]
Sponsor	Avery Dennison Willem Einthovenstraat 11 2342 BH OEGSTGEEST THE NETHERLANDS
Product name	**Avery Dennison® Façade Film**
Prepared by	Efectis Nederland BV
Notified body no.	1234
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Project number	ENL-14-000837
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Number of pages	6

1. INTRODUCTION

1.1 PRODUCT NAME

This classification report defines the classification assigned to **Avery Dennison® Façade Film** in accordance with the procedures given in EN 13501-1:2007+A1:2009.

1.2 REVISION INFORMATION

Sponsor address corrected.
Full reference to Avery Dennison® included in the product name.
Original date of issue: April 2015

2. DETAILS OF CLASSIFIED PRODUCT

2.1 GENERAL

The product, **Avery Dennison® Façade Film**, is defined as a wall covering.

2.2 MANUFACTURER

Avery Dennison
Willem Einthovenstraat 11
2342 BH OEGSTGEEST
THE NETHERLANDS

2.3 PRODUCT DESCRIPTION

According to the sponsor the product is composed of:

- Face film: 50 µm premium quality, high gloss cast vinyl film
- Adhesive: 40 µm permanent, acrylic based
- Backing paper: one sided coated kraft paper

The product is available in various colours.

The product has a total thickness of approx. 90 µm and a mass per unit area of approx. 80 - 110 g/m^2 (measured on the product).
See also Appendix 'Product data sheet' in the test reports.

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

3.1 REPORTS

Name of Laboratories	Name of sponsor	Report ref. no.	Test method
Efectis Nederland BV THE NETHERLANDS	Avery Dennison Graphics & Reflective Solutions THE NETHERLANDS	2015-Efectis-R000409 2015-Efectis-R000410	EN ISO 11925-2:2010 EN 13823:2014

3.2 TEST RESULTS

Test method and test number	Parameter	No. tests	Results	
			Continuous parameter - mean (m)	Compliance with parameters
EN ISO 11925-2				
surface flame impingement	Fs ≤150 mm	6	32	-
	Ignition of filter paper		-	Compliant
Edge flame impingement	Fs ≤150 mm	6	15	-
	Ignition of filter paper		-	Compliant
EN 13823				
Black	$FIGRA_{0.2MJ}$ [W/s]	3	22	-
	$FIGRA_{0.4MJ}$ [W/s]		0	-
	THR_{600s} [MJ]		0.5	-
	LFS < edge		-	Compliant
	SMOGRA [m^2/s^2]		12.4	-
	TSP_{600s} [m^2]		41	-
	Flaming debris - flaming ≤ 10 s - flaming > 10 s		-	 Compliant Compliant
Red	$FIGRA_{0.2MJ}$ [W/s]	3	0	-
	$FIGRA_{0.4MJ}$ [W/s]		0	-
	THR_{600s} [MJ]		0.6	-
	LFS < edge		-	Compliant
	SMOGRA [m^2/s^2]		0	-
	TSP_{600s} [m^2]		32	-
	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
White	$FIGRA_{0.2MJ}$ [W/s]	3	0	-
	$FIGRA_{0.4MJ}$ [W/s]		0	-
	THR_{600s} [MJ]		0.4	-
	LFS < edge		-	Compliant
	SMOGRA [m^2/s^2]		13	-
	TSP_{600s} [m^2]		45	-
	Flaming debris - flaming ≤ 10 s - flaming > 10 s		-	 Compliant Compliant

3.3 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 13501-1:2007+A1:2009.

4.2 CLASSIFICATION

The product, **Avery Dennison® Façade Film**, 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	
• Face film	50 µm
• Adhesive	40 µm
Surface density	Approx. 80 - 110 kg/m^2
Other properties	All colours

This classification is valid for the following end use applications:

Substrate	Non-combustible (class A1 according to EN 13238:2010)
Air gap	Including an air gap
Methods and means of fixing	Glued, using the products adhesive
Joints	Vertical joints only
Other aspects of end use conditions	Wall covering

4.4 DURATION OF THE VALIDITY OF THIS CLASSIFICATION REPORT

There are no limitations in time on the validity of this report.

5. LIMITATIONS

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

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