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CLASSIFICATION

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

Classification no.	2018-Efectis-R001118
Sponsor	Avery Dennison Willem Einthovenstraat 11 2342 BH OEGSTGEEST THE NETHERLANDS
Product name	**Avery Dennison® MPI™ 3000/3001/3020/3021**
Prepared by	Efectis Nederland BV
Notified body no.	1234
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1. INTRODUCTION

This classification report defines the classification assigned to **Avery Dennison® MPI™ 3000/3001/3020/3021** in accordance with the procedures given in EN 13501-1:2007+A1:2009.

2. DETAILS OF CLASSIFIED PRODUCT

2.1 GENERAL

The product, **Avery Dennison® MPI™ 3000/3001/3020/3021**, is defined as a multi-purpose film product that will be used for all kind of applications.

2.2 MANUFACTURER

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

2.3 PRODUCT DESCRIPTION

According to the sponsor the product is composed of:

- Film:
  - 3000/3001: 95 µm gloss white monomeric calendered vinyl
  - 3020/3021: 95 µm matt white monomeric calendered vinyl
- Adhesive:
  - 3000/3020: permanent, clear, acrylic based, 20 µm
  - 3001/3021: removable, clear, acrylic based, 20 µm
- Backing: clay coated kraft paper, 125 g/m^2

The product has a total thickness of approx. 115 µm and a mass per unit area of approx. 149 g/m^2 (measured on the product).
See also test reports 2018-Efectis-R001116 and 2018-Efectis-R001117 for the product data sheets.

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

3.1 APPLICABLE (PRODUCT) STANDARDS

EN ISO 11925-2:2010	Reaction to fire tests - Ignitability of products subjected to direct impingement of flame - Part 2: Single-flame source test
EN 13823:2010+A1:2014	Reaction to fire tests for building products - Building products, excluding floorings exposed to the thermal attack by a single burning item
EN 13501-1:2007 +A1:2009	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	2018-Efectis-R001116 2018-Efectis-R001117	EN ISO 11925-2:2010 EN 13823:2014

3.3 TEST RESULTS

Test method and test number	Parameter	No. tests	Results	
			Continuous parameter – maximum	Compliance with parameters
EN ISO 11925-2				
surface flame impingement	Fs ≤150 mm	6	20	-
	Ignition of filter paper		-	Compliant
Edge flame Impingement	Fs ≤150 mm	6	20	-
	Ignition of filter paper		-	Compliant

Test method and test number	Parameter	No. tests	Results	
			Continuous parameter – mean (m)	Compliance with parameters
EN 13823				
3001	$FIGRA_{0.2MJ}$ [W/s]	3	59	-
	$FIGRA_{0.4MJ}$ [W/s]		0	-
	THR_{600s} [MJ]		0.6	-
	LFS < edge		-	Compliant
	SMOGRA [m^2/s^2]		20.8	-
	TSP_{600s} [m^2]		33	-
	Flaming debris - flaming ≤ 10 s - flaming > 10 s		 - -	 Compliant Compliant
3000	$FIGRA_{0.2MJ}$ [W/s]	1	0	-
	$FIGRA_{0.4MJ}$ [W/s]		0	-
	THR_{600s} [MJ]		0.4	-
	LFS < edge		-	Compliant
	SMOGRA [m^2/s^2]		14.5	-
	TSP_{600s} [m^2]		25	-
	Flaming debris - flaming ≤ 10 s - flaming > 10 s		 - -	 Compliant Compliant

3020	$FIGRA_{0.2MJ}$ [W/s]	1	40	-
	$FIGRA_{0.4MJ}$ [W/s]		0	-
	THR_{600s} [MJ]		0.5	-
	LFS < edge		-	Compliant
	SMOGRA [m^2/s^2]		17.3	-
	TSP_{600s} [m^2]		28	-
	Flaming debris - flaming ≤ 10 s - flaming > 10 s		- -	Compliant Compliant
3021	$FIGRA_{0.2MJ}$ [W/s]	1	47	-
	$FIGRA_{0.4MJ}$ [W/s]		0	-
	THR_{600s} [MJ]		0.0	-
	LFS < edge		-	Compliant
	SMOGRA [m^2/s^2]		23.8	-
	TSP_{600s} [m^2]		30	-
	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 13501-1:2007+ A1:2009.

4.2 CLASSIFICATION

The product, **Avery Dennison® MPI^{TM} 3000/3001/3020/3021**, 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	115 µm
Surface density	149 g/m^2

This classification is valid for the following end use applications:

Substrate	Non-combustible (class A1 according to EN 13238:2010)
Air gap	40
Methods and means of fixing	Glued using the adhesive of the product
Joints	Vertical only
Other aspects of end use conditions	Wall covering

4.4 DURATION OF THE VALIDITY OF THIS CLASSIFICATION REPORT

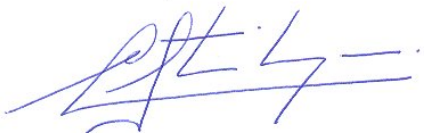
There are no limitations in time on the validity of this report.

5. LIMITATIONS

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



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