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CLASSIFICATION

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

Classification no.	2019-Efectis-R000556
Sponsor	Avery Dennison Willem Einthovenstraat 11 2342 BH OEGSTGEEST THE NETHERLANDS
Product name	Avery Dennison® MPI 2800 High Opacity series
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 2800 High Opacity series** 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 2800 High Opacity series**, is defined as a multi-purpose vinyl.

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:

- Face film: 80 µm, gloss white polymeric calendered vinyl with high opacity properties;
- Adhesive: 20 µm, permanent, clear acrylic based;
- Backing paper: Clay coated kraft paper, 125 g/m².

The product has a total thickness of approx. 100 μ m and a mass per unit area of approx. 130 g/m² (measured on the product).

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

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	2019-Efectis-R000554 2019-Efectis-R000555	EN ISO 11925-2:2010 EN 13823:2014

3.3 TEST RESULTS

			Results	
Test method and Parameter test number	Parameter	No. tests	Continuous parameter – maximum	Compliance with parameters
EN ISO 11925-2				
impingement	Fs ≤150 mm	6	25	-
	Ignition of filter paper		-	Compliant
Edge flame Impingement	Fs ≤150 mm	6	30	-
	Ignition of filter paper		-	Compliant

			Results		
Test method and test number	Parameter		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	10.4	-
	TSP _{600s}	[m ²]		39	-
	Flaming debris - flaming ≤ 10 s - flaming > 10 s			-	Compliant Compliant





3.4 CLASSIFICATION CRITERIA

		tion products and buildir ar pipe thermal insulation p	-
Classification crit	eria		
Class Test method(s)	В	С	D
EN ISO 11925-2 Exposure = 30 s	$F_s \le 150$ mm within 60 s Ignition of the paper in EN ISO 11925-2 results in a d2 classification.		
EN 13823	$ \begin{array}{ c c c c } FIGRA_{0.2\ MJ} \leq 120\ W/s & FIGRA_{0.4\ MJ} \leq 250\ W/s \\ LFS < edge \ of \ specimen \\ THR_{600s} \leq 7.5\ MJ & THR_{600s} \leq 15\ MJ \\ \end{array} \\ \begin{array}{ c c c c c c } FIGRA_{0.4\ MJ} \leq 750\ W/s \\ FIGRA_{0.4\ MJ} \leq 750\ W/s \\ FIGRA_{0.4\ MJ} \leq 750\ W/s \\ \end{array} $		
Additional classif	ication		L
Smoke production	te production $s1 = SMOGRA \le 30 \text{ m}^2/\text{s}^2 \text{ and } TSP_{600s} \le 50 \text{ m}^2$; $s2 = SMOGRA \le 180 \text{ m}^2/\text{s}^2 \text{ and } TSP_{600s} \le 200 \text{ m}^2$; s3 = 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 13501-1:2007+ A1:2009.

4.2 CLASSIFICATION

The product, **Avery Dennison® MPI 2800 High Opacity series**, in relation to its reaction to fire behaviour is classified:

В

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



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4.3 FIELD OF APPLICATION

This classification is valid for the following product parameters:

Thickness Face filmAdhesive	80 μm 20 μm
Surface density	Approx.130 g/m ² (measured on the product)
Other properties	Colour: White

This classification is valid for the following end use applications:

Substrate	Non-combustible (class A1/A2 according to EN 13238:2010)
Air gap	Including air gap
Methods and means of fixing	Glued, using the products adhesive
Joints	Vertical only
Other aspects of end use conditions	Multi-purpose vinyl

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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flock

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