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CLASSIFICATION

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

Classification no. 2019-Efectis-R000680

Sponsor Avery Dennison

> Willem Einthovenstraat 11 2342 BH OEGSTGEEST THE NETHERLANDS

Product name Avery Dennison® DOL 1400 Z Series

Prepared by Efectis Nederland BV

1234 Notified body no.

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1. INTRODUCTION

This classification report defines the classification assigned **Avery Dennison® DOL 1400 Z 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® DOL 1400 Z Series**, is defined as a protective overlaminate film

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: 30 μm, premium quality clear cast vinyl;

Adhesive: 20 µm, permanent, acrylic based;

Backing paper: White bleached kraft paper, 130 g/m².

The product has a total thickness of approx. 50 µm and a mass per unit area of approx. 65 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	2018-Efectis-R000678 2018-Efectis-R000679	EN ISO 11925-2:2010 EN 13823:2014

3.3 TEST RESULTS

	Parameter	No. tests	Results	
Test method and test number			Continuous parameter – maximum	Compliance with parameters
EN ISO 11925-2				
surface flame	Fs ≤150 mm	6	25	-
impingement	Ignition of filter paper		-	Compliant
Edge flame	Fs ≤150 mm	6	15	-
Impingement	Ignition of filter paper	6	-	Compliant

	Test method and test number Parameter		No. tests	Results	
				Continuous parameter – mean (m)	Compliance with parameters
EN 13823	EN 13823				
	FIGRA _{0.2MJ}	[W/s]		0	-
	FIGRA _{0.4MJ}	[W/s]		0	-
	THR _{600s}	[MJ]		0.3	-
	LFS < edge		3	-	Compliant
	SMOGRA	$[m^2/s^2]$		0	-
	TSP _{600s}	[m ²]		28	-
	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 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	FIGRA _{0.2 MJ} \leq 120 W/s LFS $<$ edge of specimen THR _{600s} \leq 7.5 MJ	FIGRA _{0.4 MJ} \leq 250 W/s LFS $<$ edge of specimen THR _{600s} \leq 15 MJ	FIGRA _{0.4 MJ} ≤ 750 W/s		
Additional classification					
Smoke production	s1 = SMOGRA \leq 30 m ² /s ² and TSP _{600s} \leq 50 m ² ; s2 = SMOGRA \leq 180 m ² /s ² and TSP _{600s} \leq 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® DOL 1400 Z 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 film 30 µm 20 µm Adhesive

Approx. 65 g/m² (measured on the product) Surface density

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 Vertically Only

Other aspects of end use

conditions

Protective overlaminate film

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.

C.C.M. Steinhage B.Sc. Project leader reaction to fire

A.J. Lock

Project leader reaction to fire