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

Sponsor	Avery Dennison P.O. Box 118 NL-2394 ZG HAZERSWOUDE The Netherlands
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Notified Body no.	1234
Product name	**Avery® DOL™ 2000 Series**
Classification report no	2012-Efectis-R9355u[Rev.1]
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This classification report consists of six pages and may only be used in its entirety.

1. Introduction

1.1 Product name

This classification report defines the classification assigned to **Avery® DOL™ 2000 Series** in accordance with the procedures given in EN 13501-1:2007+A1:2009.

1.2 Revision information

A change in individual type names implemented.
Original dat of issue: October 2012

2. Details of classified product

2.1 General

The product, **Avery® DOL™ 2000 Series**, is defined as a protective over laminating film for digitally printed images.

2.2 Product description

According to the sponsor the product is composed of:
- Facefilm: 80 µm flexible, transparent, calendered vinyl
- Adhesive: permanent clear pressure sensitive, acrylic based, 30 µm
- Backing paper: white bleached kraft paper, 130 g/m^2

The product has a total thickness of 110 µm.

2.3 Individual type names

- DOL 2460 Gloss
- DOL 2470 Lustre
- DOL 2480 Matt

2.4 Manufacturer/Importer

Avery Dennison
P.O. Box 118
NL-2394 ZG HAZERSWOUDE
The Netherlands

3. Standards, 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 The Netherlands	2012-Efectis-R9355s 2012-Efectis-R9355t	EN ISO 11925-2:2010 EN 13823:2010

3.2 Classification criteria

Classification criteria of the Single Burning Item (SBI) test			
Class	**Fire**	**Class**	**Smoke**
A2	$FIGRA_{0.2\ MJ} \leq 120$ W/s LFS < edge of the long wing specimen $THR_{600s} \leq 7{,}5$ MJ	s1	SMOGRA ≤ 30 m^2/s^2 $TSP_{600s} \leq 50\ m^2$
B	$FIGRA_{0.2\ MJ} \leq 120$ W/s LFS < edge of the long wing specimen $THR_{600s} \leq 7{,}5$ MJ	s2	SMOGRA ≤ 180 m^2/s^2 $TSP_{600s} \leq 200\ m^2$
C	$FIGRA_{0.4\ MJ} \leq 250$ W/s LFS < edge of the long wing specimen $THR_{600s} \leq 15$ MJ	**Class**	**Droplets**
		d0	No flaming droplets/particles
		d1	Flaming droplets/particles < 10 s
D	FIGRA ≤ 750 W/s	d2	Not d0 or d1

3.3 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 [mm]	6	31	-
	Ignition of filter paper		-	Compliant
edge flame impingement	Fs ≤150 mm [mm]	6	29	-
	Ignition of filter paper		-	Compliant
EN 13823				
DOL 2460	$FIGRA_{0.2MJ}$ [W/s]	3	10	-
	$FIGRA_{0.4MJ}$ [W/s]		0	-
	THR_{600s} [MJ]		0.6	-
	LFS < edge		-	Compliant
	SMOGRA [m^2/s^2]		14.6	-
	TSP_{600s} [m^2]		48	-
	Flaming debris - flaming ≤ 10 s - flaming > 10 s		-	Compliant Compliant
DOL 2480	$FIGRA_{0.2MJ}$ [W/s]	1	0	-
	$FIGRA_{0.4MJ}$ [W/s]		0	-
	THR_{600s} [MJ]		0.4	-
	LFS < edge		-	Compliant
	SMOGRA [m^2/s^2]		0.0	-
	TSP_{600s} [m^2]		33	-
	Flaming debris - flaming ≤ 10 s - flaming > 10 s		-	Compliant Compliant
DOL 2870	$FIGRA_{0.2MJ}$ [W/s]	1	0	-
	$FIGRA_{0.4MJ}$ [W/s]		0	-
	THR_{600s} [MJ]		0.2	-
	LFS < edge		-	Compliant
	SMOGRA [m^2/s^2]		11.7	-
	TSP_{600s} [m^2]		48	-
	Flaming debris - flaming ≤ 10 s - flaming > 10 s		-	Compliant Compliant

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® DOL™ 2000 Series**, 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	110 µm
- Other properties	permanent clear pressure sensitive, acrylic based

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 gaps
- Methods and means of fixing	gluing using the adhesive of the product
- Joints	no joints

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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Project leader reaction to fire

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