

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

Classification no.	2016-Efectis-R000630
Sponsor	Avery Dennison Willem Einthovenstraat 11 2342 BH OEGSTGEEST THE NETHERLANDS
Product name	MPI 1105 and MPI 1105 EA RS
Prepared by	Efectis Nederland BV
Notified body no.	1234
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1. INTRODUCTION

This classification report defines the classification assigned to **MPI 1105 and MPI 1105 EA RS** in accordance with the procedures given in EN 13501-1:2007+A1:2009.

2. DETAILS OF CLASSIFIED PRODUCT

2.1 GENERAL

The product, **MPI 1105 and MPI 1105 EA RS**, is defined as a vehicle wrapping 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 from inside out composed of:

Film: 50 µm, gloss white cast vinyl
Colour: white

Adhesive: 30 µm, permanent, acrylic based with grey tie coat and long term removability properties

Backing paper: Two sided PE coated StaFlat™ paper, 155 g/m²

See appendix 'Product data sheet' in the test reports for more detailed specifications.

The product has a total thickness of 50 µm and a mass per unit area of approx. 120 g/m² (measured on the product).

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	2016-Efectis-R000628 2016-Efectis-R000629	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	25	-
	Ignition of filter paper		-	Compliant
Edge flame Impingement	Fs ≤150 mm	6	17	-
	Ignition of filter paper		-	Compliant
EN 13823				
MPI 1105 EA RS	FIGRA _{0,2MJ} [W/ s]	3	24	-
	FIGRA _{0,4MJ} [W/ s]		0	-
	THR _{600s} [MJ]		0.6	-
	LFS < edge		-	Compliant
	SMOGRA [m ² / s ²]		6.7	-
	TSP _{600s} [m ²]		41	-
	Flaming debris - flaming ≤ 10 s - flaming > 10 s		- -	Compliant Compliant
MPI 1105	FIGRA _{0,2MJ} [W/ s]	1	33	-
	FIGRA _{0,4MJ} [W/ s]		0	-
	THR _{600s} [MJ]		0.5	-
	LFS < edge		-	Compliant
	SMOGRA [m ² / s ²]		9.8	-
	TSP _{600s} [m ²]		38	-
	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	$F_s \leq 150$ 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	$FIGRA_{0.4 MJ} \leq 750$ 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, **MPI 1105 and MPI 1105 EA RS**, 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	
• Film	50 µm
• Adhesive	30 µm
Surface density	Approx. 120 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	Using the adhesive of the product
Joints	Vertical only
Other aspects of end use conditions	Vehicle wrapping film

4.4 DURATION OF THE VALIDITY OF THIS CLASSIFICATION REPORT

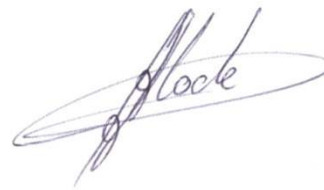
There are no limitations in time on the validity of this report.

5. LIMITATIONS

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



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