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CLASSIFICATION

CLASSIFICATION OF REACTION TO FIRE PERFORMANCE IN ACCORDANCE WITH EN 13501-1:2018

Classification no.	2021-Efectis-R001580
Sponsor	Wentex International BV Italiëlaan 4b 2391 PT HAZERSWOUDE-DORP THE NETHERLANDS
Product name	**MCS**
Prepared by	Efectis Nederland BV
Notified body no.	1234
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Project number	ENL-21-001068
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Number of pages	5

1. INTRODUCTION

This classification report defines the classification assigned to **MCS** in accordance with the procedures given in EN 13501-1:2018.

2. DETAILS OF CLASSIFIED PRODUCT

2.1 GENERAL

The product, **MCS**, is defined as a fabric (for application in e.g. curtains for theatres, fairs and events).

2.2 IMPORTER

Wentex International BV
Italiëlaan 4b
2391 PT HAZERSWOUDE-DORP
THE NETHERLANDS

2.3 PRODUCT DESCRIPTION

Product description:
100% Polyester (PES) fibres woven into a fabric. The product has a matt and a gloss side. The PES fibres are manufactured in Taiwan and the fabric is woven in China.

The product has a total thickness of <1 mm and a mass per unit area of approx. 300 g/m^2. The product is available in the colour black.

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

3.1 APPLICABLE (PRODUCT) STANDARDS

EN ISO 11925-2:2020	Reaction to fire tests - Ignitability of products subjected to direct impingement of flame - Part 2: Single-flame source test
EN 13823:2020	Reaction to fire tests for building products - Building products, excluding floorings exposed to the thermal attack by a single burning item
EN 13238:2010	Reaction to fire tests for building products - Conditioning procedures and general rules for selection of substrates
EN 13501-1:2018	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	Wentex International BV THE NETHERLANDS	2021-Efectis-R001577 2021-Efectis-R001578	EN ISO 11925-2:2020 EN 13823:2020

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 Gloss side	Fs ≤150 mm	6	70	-
	Ignition of filter paper		-	Compliant
Edge flame Impingement Gloss side	Fs ≤150 mm	6	70	-
	Ignition of filter paper		-	Compliant
Surface flame Impingement Matt side	Fs ≤150 mm	6	70	-
	Ignition of filter paper		-	Compliant
Edge flame Impingement Matt side	Fs ≤150 mm	6	70	-
	Ignition of filter paper		-	Compliant

Test method and test number	Parameter	No. tests	Results	
			Continuous parameter – mean (m)	Compliance with parameters
EN 13823				
Gloss side	$FIGRA_{0.2MJ}$ [W/s]	3	0	-
	$FIGRA_{0.4MJ}$ [W/s]		0	-
	THR_{600s} [MJ]		0.1	-
	LFS < edge		-	Compliant
	SMOGRA [m^2/s^2]		0.0	-
	TSP_{600s} [m^2]		16	-
	Flaming debris - flaming ≤ 10 s - flaming > 10 s		 - -	 Compliant Compliant

EN 13823				
Matt side	$FIGRA_{0.2MJ}$ [W/s]	1	0	-
	$FIGRA_{0.4MJ}$ [W/s]		0	-
	THR_{600s} [MJ]		0.1	-
	LFS < edge		-	Compliant
	SMOGRA [m^2/s^2]		0.0	-
	TSP_{600s} [m^2]		12	-
	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 13501-1:2018.

4.2 CLASSIFICATION

The product, **MCS**, 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	<1 mm
Surface density	300 g/m^2
Other properties	100% Polyester (PES) fibres

This classification is valid for the following end use applications:

Substrate	Not applicable
Application	Free hanging
Air gap	Not applicable
Methods and means of fixing	Mechanically fixed
Joints	Yes Stiched seams
Other aspects of end use conditions	Closed surface, no openings or gaps between components

4.4 DURATION OF THE VALIDITY OF THIS CLASSIFICATION REPORT

Consult classification standard and national laws and regulations for limitations on the period of validity of the classification.

5. LIMITATIONS

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

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