

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

Classification no.	2025-Efectis-R001143
Sponsor	Highlite International BV Vestastraat 2 6468 EX Kerkrade The Netherlands
Product name	Medium Gloss Satin Black and white
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1. INTRODUCTION

1.1 PRODUCT NAME

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

1.2 ASSESSMENT INFORMATION

The assessment of the editorial and technical alterations between:

- The issues 2020+A1:2014 and the 2020+A1:2022 version of the test standard EN 13823.

Efectis compared the two versions of the EN 13823 standard and concluded that the results for this product from the tests according to the EN 13823:2020+A1:2014 standard are still valid according to the EN 13823:2020+A1:2022 standard. Therefore, this report can be used for classification according to EN 13501-1:2018.

2. DETAILS OF CLASSIFIED PRODUCT

2.1 GENERAL

The product, Medium Gloss Satin, is defined as a fabric (for application e.g. theatres).

2.2 IMPORTER

Highlite International BV
Vestastraat 2
6468 EX KERKRADE
THE NETHERLANDS

2.3 PRODUCT DESCRIPTION

According to the sponsor the product is composed of:
100% Polyester (PES) fibres woven into a fabric. The product is symmetrical. 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. 175 g/m². The product is available in the colours black and white.

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+A1:2022

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	Highlite International BV THE NETHERLANDS	2021-Efectis-R001581 2021-Efectis-R001582	EN ISO 11925-2:2020 EN 13823:2020+A1:2014

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 Black Colour	Fs ≤150 mm	6	70	-
	Ignition of filter paper		-	Compliant
Edge flame Impingement Black Colour	Fs ≤150 mm	6	70	-
	Ignition of filter paper		-	Compliant
Surface flame Impingement White colour	Fs ≤150 mm	2	35	-
	Ignition of filter paper		-	Compliant
Edge flame Impingement Black Colour	Fs ≤150 mm	2	30	-
	Ignition of filter paper		-	Compliant

Test method and test number	Parameter	No. tests	Results	
			Continuous parameter – mean (m)	Compliance with parameters
EN 13823				
Black	FIGRA _{0.2MJ} [W/s]	3	0	-
	FIGRA _{0.4MJ} [W/s]		0	-
	THR _{600s} [MJ]		0.2	-
	LFS < edge		-	Compliant
	SMOGRA [m²/s²]		0.0	-
	TSP _{600s} [m²]		16	-

	Flaming debris - flaming ≤ 10 s - flaming > 10 s		- -	Compliant Compliant
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EN 13823				
White	FIGRA _{0.2MJ} [W/s]	1	0	-
	FIGRA _{0.4MJ} [W/s]		0	-
	THR _{600s} [MJ]		0.0	-
	LFS < edge		-	Compliant
	SMOGRA [m ² /s ²]		0.0	-
	TSP _{600s} [m ²]		18	-
	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, **Medium Gloss Satin**, 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	175 g/m ²
Other properties	Composed of 100% Polyester (PES) fibres. Available in the colours black and white

This classification is valid for the following end use applications:

Substrate	Not applicable
Application	Free hanging
Methods and means of fixing	Mechanically fixed
Joints	Yes, stitched 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.

The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide for traceability of the samples tested.



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