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CLASSIFICATION

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

Classification no.	2022-Efectis-R000279
Sponsor	Pretty Plastic B.V. Koopvaardersplantsoen75 1034 KE AMSTERDAM THE NETHERLANDS
Product name	**Pretty Plastic, recycled PVC slats**
Prepared by	Efectis Nederland BV
Notified body no.	1234
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Project number	ENL-22-000041
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Number of pages	5

1. INTRODUCTION

This classification report defines the classification assigned to **Pretty Plastic, recycled PVC slats** in accordance with the procedures given in EN 13501-1:2018.

2. DETAILS OF CLASSIFIED PRODUCT

2.1 GENERAL

The product, **Pretty Plastic, recycled PVC slats**, is defined as a façade covering.

2.2 MANUFACTURER

Pretty Plastic B.V.
Koopvaardersplantsoen75
1034 KE AMSTERDAM
THE NETHERLANDS

2.3 PRODUCT DESCRIPTION

According to the sponsor the product is composed of recycled PVC and additives.

PVC:
- >75% 1390-1450 kg/m^3;

Additives:
- PVC recyclaat additive 20%;
- Colour compound 3%;
- Impurities <1%;
- Moisture < 0.8%.

Mounted against Pine wood battens, thickness 40 mm and a density 450 kg/m^3.
Detailed datasheet in Appendix, 'Datasheet' in the test reports.

The product has a total thickness of 29 mm and a mass of approx.1348 kg/m^3, measured on the product.

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	Pretty Plastic B.V. THE NETHERLANDS	2022-Efectis-R000277 2022-Efectis-R000278	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	Fs ≤150 mm	6	40	-
	Ignition of filter paper		-	Compliant
Edge flame Impingement	Fs ≤150 mm	6	45	-
	Ignition of filter paper		-	Compliant

Test method and test number	Parameter	No. tests	Results	
			Continuous parameter – mean (m)	Compliance with parameters
EN 13823				
	$FIGRA_{0.2MJ}$ [W/s]	3	48	-
	$FIGRA_{0.4MJ}$ [W/s]		47	-
	THR_{600s} [MJ]		4.1	-
	LFS < edge		No	Compliant
	SMOGRA [m^2/s^2]		50.1	-
	TSP_{600s} [m^2]		519	-
	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	$F_s \leq 150$ 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 ≤ 30 m^2/s^2 and $TSP_{600s} \leq 50$ m^2 ; **s2** = SMOGRA ≤ 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 13501-1:2018.

4.2 CLASSIFICATION

The product, **Pretty Plastic, recycled PVC slats**, in relation to its reaction to fire behaviour is classified:

B

The additional classification in relation to smoke production is:

s3

The additional classification in relation to flaming droplets / particles is:

d0

Reaction to fire classification: B – s3, d0

4.3 FIELD OF APPLICATION

This classification is valid for the following product parameters:

Thickness	29 mm at thickest
Surface density	1348 kg/m^3
Colour	All colours

This classification is valid for the following end use applications:

Substrate	Non-combustible (class A1/A2, 870 ± 50 kg/m³, according to EN 13238:2010)
Application	Façade covering
Air gap	Yes
Methods and means of fixing	The slats overlap each other and are screwed on 20x30 mm pinewood battens positioned in horizontal at a distance of 150 mm of each other. The pinewood battens are screwed to the substrate. A metallic square profile was positioned in the corner to provide stability to the long and short wing. The panels were positioned with a ventilated air gap of 40 mm to the backing board.
Joints	The joints due to the overlap of the slats
Other aspects of end use conditions	Screwed on 20x30 mm pinewood battens, non fire-retardant.

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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