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REACTION TO FIRE CLASSIFICATION IN ACCORDANCE TO THE STANDARD EN 13501-1:2018

Petitioner's reference: SOROMAP PEINTURES VERNIS

3 rue Maurice Mallet, ZA de Béligon

17300 - Rochefort sur Mer

Charente-Maritime

Prepared by: LGAI Technological Center, S.A.

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Ronda de la Font del Carme, s/n E - 08193 Bellaterra (Barcelona)

Product name: Bio Shrink Wrap

Report No.: **25/32302886-2**

Date of issue: 31st March, 2025

1- INTRODUCTION

This classification report defines the classification assigned to Bio Shrink Wrap in accordance with the procedures given in the EN 13501-1:2018 standard.

2. DETAILS OF CLASSIFIED PRODUCT

2.1.-General

According to the petitioner, the product Bio Shrink Wrap is defined as plastic shrink wrap.

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2.2.- Description of the product

Samples of plastic shrink, with Applus internal code 25/30248, was received with the following indications in accordance with the technical specifications provided by the petitioner:

COMMERCIAL REFERENCE: Bio Shrink Wrap

Polyethylene, plastic shrink wrap, with a thickness of 0,19 mm, a density of 900 kg/m³, a superficial density of 0,17 kg/m², green colour and smooth appearance.

Fixing system: The product was fixed mechanically with staples on a gypsum plasterboard substrate. (Gypsum plasterboard in accordance with the specifications of the standard EN 13238:2010).

Manufacturer: BIOAQUALIFE, 43 Celestial Drive, Narragansett, RI 02882

3- REPORT AND RESULTS IN SUPPORT OF THIS CLASSIFICATION

3.1- Reports

Name of Laboratory	Name of Petitioner	Report ref. no.	Test method and date	
Applus – LGAI	SOROMAP PEINTURES VERNIS	25/32302886-1	EN ISO 11925-2:2020 25-03-2025	
		23/32302000-1	EN 13823:2020+A1:2022 25-03-2025	



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3.2- Results of the Tests

Test Method	RESULTS – Bio Shrink Wrap					
10001100110	CRITERIA CLASS B	Nº TESTS	AVERAGE	COMPLIANCE		
EN ISO 11925-2:2020	$\begin{aligned} F_s &\leq 150 \text{ mm} \\ \text{within 60 s} \end{aligned}$	12	F _s < 150 mm	YES		
	$FIGRA_{0,2\;MJ} \leq 120\;W/s$	120 W/s 3 101		YES		
EN 13823:2020+A1:2022	LFS < < edge of the sample	3	< to edge	YES		
	THR _{600s} ≤ 7,5 MJ	3	1,8	YES		
	CRITERIA subclass 's1'	Nº TESTS	AVERAGE	COMPLIANCE		
	$SMOGRA \leq 30 \ m^2/s^2$	3	0	YES		
	$TSP_{600s} \leq 50 \ m^2$	3	25	YES		
	CRITERIA subclass 'd0'	Nº TESTS	AVERAGE	COMPLIANCE		
	Fall of droplets/particles in flames within 600 s	3	NO	YES		

4- CLASSIFICATION AND FIELD OF APPLICATION

4.1- Reference of classification

This classification has been carried out in accordance with EN 13501-1:2018: "Classification in terms of the behaviour to fire of construction products and building elements. Part 1: Classification made from the data gathered during fire reaction tests".

4.2- Classification

The product, Bio Shrink Wrap in relation to its reaction to fire behaviour is classified:

В

The additional classification in relation to smoke production is:

s1

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

d0

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Fire behaviour		Smoke production			Flaming droplets	
В	-	S	1	,	d	0

REACTION TO FIRE CLASSIFICATION: B-s1,d0

This classification is only valid for the final conditions of use described in the present report.

4.3.- Field of application

• This classification is valid for the following product parameters:

The classification is only valid for the product characteristics shown, with the following parameters being extended:

- Variable parameter 1: Substrate

The tests were carried out with the product applied on a gypsum plasterboard substrate, with a density of (870 ± 50) kg/m3, a thickness of (11 ± 2) mm.

The obtained results are valid for substrates of end use gypsum plasterboard and also any end use substrate of classes A1 and A2-s1,d0, and comprising a density of at least 75% of the nominal density of the test substrate, according to standard EN 13238:2010.

• The classification is valid for the following final use applications:

The product Bio Shrink Wrap is intended to be used as ships covering.

Substrate	Gypsum plasterboard
Fixing method	Mechanically
Joint	-
Air cavity	-
Others	-



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5.- LIMITATIONS

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

Laboratory Manager LGAI Technological Center S.A. (APPLUS) Responsible of Euroclasses LGAI Technological Center S.A. (APPLUS)

The uncertainty expanded of the measure U, has been obtained by multiplying the typical measurement uncertainty by the coverage factor k, such that the coverage probability is approximately 95%

The results refer exclusively to the samples tested at the time and under the conditions indicated. The results refer exclusively to the samples tested at the time and under the conditions indicated. The decision rule agreed with the client to give a declaration of conformity with the specification or standard, is following a simple binary decision rule, in line with what is established ILAC G8.

Uncertainty associated to the Small Burner Test: Time=±1,2

Uncertainty associated to the Single Burned Item (SBI) Test: FIGRA0,2MJ \pm 27 W/s; THR600s= \pm 1,9 MJ; SMOGRA= \pm 7 m²/s²; TSP600s= \pm 13 m²; Time (Fall of droplets/particles) = N.A.

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