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

Petitioner's reference:	**DIGIDELTA INTERNATIONAL IMPORT EXPORT, S.A.** Zona Industrial Torres Novas, Lote 1 Casal Torteiro Portugal
Prepared by:	**LGAI Technological Center, S.A. (APPLUS)** Campus UAB Ronda de la Font del Carme, s/n E - 08193 Bellaterra (Barcelona)
Notified Body No:	**0370**
Product name:	**Biond Bio-Print Film – White Glossy, White Matte, Clear Glossy and Clear Matte** **Biond Bio-Protection Film – Clear Glossy, Clear Matte and Clear Embossed** **Biond Bio-Glass Etch Film** **Biond Bio-Texture Décor Film**
Classification report nº:	**25/32304643-2**
Date of issue:	**29th May, 2025**

1.-INTRODUCTION

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

LGAI TECHNOLOGICAL CENTER, S.A. is notified body nº 0370 under Construction Product Regulation nº 305/2011 for CE Marking; System 3.

2.- DETAILS OF CLASSIFIED PRODUCT

2.1.-General

The product, Biond Bio-Protection film, is defined according to European Standard EN 15102:2007+A1:2012: "Decorative wall coverings. Roll and panel form".

2.2–PRODUCT CHARACTERISTICS

Samples of biobased films were received with the following indications in accordance with the technical specifications provided by the petitioner:

COMMERCIAL REFERENCE: (thicknesses between 60 and 120)

- Biond Bio-Print Film – White Glossy, White Matte, Clear Glossy and Clear Matte
- Biond Bio-Protection Film – Clear Glossy, Clear Matte and Clear Embossed
- Biond Bio-Glass Etch Film
- Biond Bio-Texture Décor Film

Applus internal code: 25/31153

Biobased film system with the following technical specifications, in 3 layers:

- Layer 1: Biobased film, with Applus internal code 25/32525, with a thickness of 60 µm, a superficial density of 75 g/m2, a density of 1250 kg/m^3 (value calculated from the lab with the values of thickness and superficial density), white colour and matte appearance.
- Layer 2: Adhesive, with Applus internal code 25/32524, with a superficial density of 20 g/m^2, colourless and smooth appearance. (The petitioner did not provide any data regarding thickness or density of this layer)
- Layer 3: Aluminum substrate acording EN 13238:2010 with a thickness of 1 mm, a density of 2700 kg/m^3, a superficial density of 2700 g/m^2, grey colour and a smooth appearance.

COMMERCIAL REFERENCE: (thicknesses between 60 and 120)

- Biond Bio-Print Film – White Glossy, White Matte, Clear Glossy and Clear Matte
- Biond Bio-Protection Film – Clear Glossy, Clear Matte and Clear Embossed
- Biond Bio-Glass Etch Film
- Biond Bio-Texture Décor Film

Applus internal code: 25/31154

Biobased film system with the following technical specifications, in 3 layers:

- Layer 1: Biobased film with a thickness of 120 µm, a superficial density of 75 g/m2, a density of 625 kg/m^3 (value calculated from the lab with the values of thickness and superficial density), white colour and matte appearance.

- Layer 2: Adhesive clear UV acrylic based with a superficial density of 20 g/m^2, colourless and smooth appearance. (The petitioner did not provide any data regarding thickness or density of this layer)

- Layer 3: Aluminum substrate acording EN 13238:2010 with a thickness of 1 mm, a density of 2700 kg/m^3, a superficial density of 2700 g/m^2, grey colour and a smooth appearance.

Manufacturer: Digidelta International Import Expert S.A., Torres novas, Portugal

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	Digidelta International Import Expert S.A.	25/32304346-1	EN ISO 1716:2010* 29-04-2025
			EN 13823:2020+A1:2022 27-05-2025

*Due to classification standard EN 13501-1:2018 call up test standard EN ISO 1716:2010, we do not test the current version of it.

3.2- Results of the Tests

Test Method	Results – 120 micrometers			
	CRITERIA CLASS A2	**Nº TESTS**	**AVERAGE**	**COMPLIANCE**
EN ISO 1716:2010	PCS ≤ 4,0 MJ/m² (1)	3	2,2 MJ/m²	**YES**
	PCS ≤ 4,0 MJ/kg (2)		0,0 MJ/kg	**YES**
	PCS ≤ 3,0 MJ/kg (3)		0,8 MJ/kg	**YES**
EN 13823:2020+A1:2022	$FIGRA_{0,2\ MJ}$ ≤ 120 W/s	3	109	**YES**
	LFS < < edge of the sample	3	< to edge	**YES**
	THR_{600s} ≤ 7,5 MJ	3	1,4	**YES**
	CRITERIA subclass 's1'	**Nº TESTS**	**AVERAGE**	**COMPLIANCE**
	SMOGRA ≤ 30 m²/s²	3	0	**YES**
	TSP_{600s} ≤ 50 m²	3	14	**YES**
	CRITERIA subclass 'd0'	**Nº TESTS**	**AVERAGE**	**COMPLIANCE**
	Fall of droplets/particles in flames within 600 s	3	NO	**YES**

1. External non-substantial component (Biobased film + adhesive)
2. Substantial component (Aluminum)
3. Product as a whole

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 tested products, 120 micrometers in relation to its reaction to fire behaviour is classified:

A2

The additional classification in relation to smoke production is:

s1

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

d0

Fire behaviour		Smoke production			Flaming droplets	
A2	-	s	1	,	d	0

REACTION TO FIRE CLASSIFICATION: A2-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:

  - Variable parameter 1: Thickness and finish

The tested product, 120 micrometers can be produced in different thicknesses and finishes.

The tests were carried out and completed with the thinnest panels (60 µm thickness) and the thickest panels (120 µm thickness) and in different finishes. As indicated by the product standard EN 15102:2007+A1:2012, by extension, it is concluded that the following panels are included in the following Euroclass:

- Biobased film, 90 mic – white glossy and white matte
- Biobased film, 120 mic – white matte and clear embossed
- Biobased film, 60 mic – clear glossy
- Biobased film, 70 mic – clear matte
- Biobased film, 90 mic – clear matte

REACTION TO FIRE CLASSIFICATION: A2-s1,d0

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

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

The product Biond Bio-Protection film is intended to be used as decorative covering for walls.

Substrate	-
Fixing method	-
Joint	Vertical joint
Air cavity	Non-cavity and non-ventilated
Others	-

5.- LIMITATIONS

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

The classification assigned to the product in this report is appropriate to a declaration of conformity by the manufacturer within the context of system 3 of AVCP and CE marking under the Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 laying down harmonised conditions for the marketing of construction products.

The manufacturer has made a declaration, which is held on file. This confirms that the products design requires no specific processes, procedures or stages (e.g. no addition of flame-retardants, limitation of organic content, or addition of fillers) that are aimed at enhancing the fire performance in order to obtain the classification achieved. As a consequence, the manufacturer has concluded that system 3 attestation is appropriate.

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.

Digitally signed by Salvador Suñol Gálvez

Digitally signed by Vanessa Tutusaus Domingo

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 Combustion Heat Determination Test: $PCS_{biobased\ film}$= ± 0,3 MJ/Kg, $PCS_{adhesive}$= ± 1,5 MJ/Kg

Uncertainty associated to the Single Burned Item (SBI) Test: FIGRA0,2MJ ±124 W/s; THR600s=±2,5 MJ; SMOGRA=±7 m^2/s^2; TSP600s=±32 m^2; Time (Fall of droplets/particles) =N.A.

Applus+ guarantees that this task has been carried out in compliance with the requirements of our Quality and Sustainability System, and furthermore, that the contractual terms and legal regulations have been complied with. In the framework of our improvement programme, we would appreciate any comments you may deem appropriate. These should be addressed to the manager who signs this document, or to the Quality Director of Applus+, at the following address:satisfaccion.cliente@applus.com