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RELATÓRIO DE CLASSIFICAÇÃO

This document is an authorized English version of the reaction to fire classification report RC-RF 0017/2021-URF issued by the Reaction to Fire Testing Laboratory of the National Laboratory of Civil Engineering (LNEC/EM-URF).

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

(and COMMISSION DELEGATED REGULATION (EU) 2016/364 of 1 July 2015)

1 | Identification

Sponsor:	DIGIDELTA INTERNACIONAL - Importação e Exportação, S. A.
Address of the sponsor:	Casal Torteiro, Zona Industrial de Torres Novas 2350-483 Torres Novas
Prepared by:	Laboratório Nacional de Engenharia Civil (LNEC)
Address:	Av. do Brasil, 101, 1700-066 LISBOA PORTUGAL
Description of the sample:	Self-adhesive polypropylene (PP) [PVC free] films " Decal PVC free R SS BF PE 65 UVP " and " Decal PVC free P BF PE 65 UVP ", white glossy, white matte, and clear , smooth finish, with acrylic adhesive, for use on non-porous flat surfaces (excluding floors).
Classification report No:	0017/2021-URF
Date of issue:	2021-03-16

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2 | Introduction

This classification report defines the reaction to fire classification assigned to the self-adhesive polypropylene (*PVC free*) films for promotional and decorative applications "**Decal PVC free R SS BF PE 65 UVP**" and "**Decal PVC free P BF PE 65 UVP**", clear, white matte or white glossy, with acrylic adhesive and removable clay coated paper liner, for flat and non-porous surfaces (excluding floorings), in accordance with the procedures given in EN 13501-1:2018 - "*Fire classification of construction products and building elements – Part 1: Classification using data from reaction to fire tests*" (and COMMISSION DELEGATED REGULATION (EU) 2016/364 of 1 July 2015).

LNEC's Reaction to Fire Testing Laboratory (LNEC/EM-URF) is accredited by IPAC (L0488--Ensaios) to perform the fire tests (*vd. 4*) supporting the assigned classification.



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3 | Details of the classified product

3.1 General

The classified products for decorative and promotional applications, for flat and non-porous surfaces (excluding floors), consisted of self-adhesive polypropylene (PP) [PVC free] “**Decal PVC free R SS BF PE 65 UVP**” and “**Decal PVC free P BF PE 65 UVP**”, smooth finish, clear, white matte or white glossy.

3.2 Product description

In accordance with the information and the Technical Data Sheets supplied by the sponsor, the tested product samples presented the following generic characteristics:

- Manufacturer/trade agent DIGIDELTA INTERNACIONAL
- Address of the manufacturer/trade agent Zona Industrial de Torres Novas, Lote 1 Casal Torteiro
2350-483 Torres Novas

(Sample 38/2020-1) – **Decal PVC free R SS BF PE 65 UVP**

- Commercial designation..... **Decal PVC free R SS BF PE 65 UVP**
- Finish reference..... **matte, ref. 120z3931**
- Material (film) polypropylene film (PP)
- Finish smooth
- Colour **white**
- Mass per unit area (**nominal** value) 60.2 g/m² (± 10%)
- Thickness 65 µm (± 10%)
- Adhesive clear acrylic
- *Liner* (removable) clay coated PE embossed paper
 - Mass per unit area (**nominal** value) 145 g/m² (± 10%)
 - Thickness (**nominal** value) 180 µm (± 10%)
- Field of application flat, smooth non porous surfaces (excluding floors)



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(Sample 09/2021) – **Decal PVC free P BF PE 65 UVP**

- Commercial designation..... **Decal PVC free P BF PE 65 UVP**
- Finish reference..... **glossy, ref. 120z39920**
- Material (film) polypropylene film (PP)
- Finish smooth
- Colour **white**
- Mass per unit area (**nominal** value).....58.8 g/m² (± 10%)
- Thickness 65 µm (± 10%)
- Adhesiveclear acrylic
- *Liner* (removable)..... clay coated PE embossed paper
 - Mass per unit area (**nominal** value)145 g/m² (± 10%)
 - Thickness (**nominal** value) 180 µm (± 10%)
- Field of application flat, smooth non porous surfaces (excluding floors)

(Sample 10/2021) – **Decal PVC free P BF PE 65 UVP**

- Commercial designation..... **Decal PVC Free P BF PE 65 UVP**
- Finish reference..... **glossy, ref. 120z39922**
- Material (film) polypropylene film (PP)
- Finish smooth
- Colour **clear**
- Mass per unit area (**nominal** value).....54.3 g/m² (± 10%)
- Thickness 65 µm (± 10%)
- Adhesiveclear acrylic
- *Liner* (removable)..... clay coated PE embossed paper
 - Mass per unit area (**nominal** value)145 g/m² (± 10%)
 - Thickness (**nominal** value) 180 µm (± 10%)
- Field of application flat, smooth non porous surfaces (excluding floors)



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4 | Test reports and test results in support of classification

4.1 Test reports

Name of Laboratory	Name of sponsor	Report No.	Test method and date
LNEC/EM-URF	DIGIDELTA INTERNACIONAL	0003/2021-URF	EN ISO 11925-2:2020
		0032/2021-URF	EN ISO 11925-2:2020
		0016/2021-URF	EN 13823:2020
		0031/2021-URF	EN 13823:2020

4.2 Test results

Test method(s)	Parameter	No. test specimens	Results	
			Continuous parameter mean values * (individual values)	Compliance with parameters
EN 13823:2020 (SBI test)	FIGRA _{0,2MJ} (W/s)	2 + 1 + 1 ⁽¹⁾	2.0 (4.3 / 3.8 / --- / ---)	YES
	FIGRA _{0,4MJ} (W/s)		2.0 (4.3 / 3.8 / --- / ---)	(YES)
	LFS < edge		YES (YES / YES / YES / YES)	YES
	THR _{600s} (MJ)		1.0 (0.9 / 1.1 / 1.0 / 1.1)	YES
	SMOGR _A (m ² /s ²)		0.3 (--- / 1.0 / --- / ---)	YES
	TSP _{600s} (m ²)		32 (25 / 30 / 36 / 37)	YES
	FDP		NO (NO / NO / NO / NO)	YES

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Test method(s)	Parameter	No. test specimens	Results	
			Continuous parameter (individual values)	Compliance with parameters
EN ISO 11925-2:2020	F_s		< 5	YES (F _s ≤ 150 mm)
Edge and surface exposure to flame Exposure time: 30 s	Flaming droplets/particles	3 + 3 ⁽²⁾ 1 + 1 ⁽²⁾ 1 + 1 ⁽²⁾	NO	YES
	Ignition of the filter paper		NO	YES

* - Mean value of the results obtained with samples refs. **Decal PVC free R SS BF PE 65 UVP** and **Decal PVC free P BF PE 65 UVP**, white glossy, white matte and clear glossy.

¹- Results obtained with samples refs. **Decal PVC free R SS BF PE 65 UVP** and **Decal PVC free P BF PE 65 UVP**, white matte (2), white glossy (1) and clear glossy (1).

²- Results obtained with samples refs. **Decal PVC free R SS BF PE 65 UVP** and **Decal PVC free P BF PE 65 UVP**, white matte (3 +3), white glossy (1 +1) and clear glossy (1 + 1).

5 | Classification and field of application

5.1 Reference of classification

This classification has been carried out in accordance with clause 11 of EN 13501-1:2018, December 2018 (and criteria defined in COMMISSION DELEGATED REGULATION (EU) 2016/364 of 1 July 2015).



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5.2 Classification

Self-adhesive polypropylene (PP) [*PVC free*] films for promotional and decorative application “**Decal PVC free R SS BF PE 65 UVP**” e “**Decal PVC free P BF PE 65 UVP**”, white matte, white glossy or clear glossy, smooth finish, in relation to their reaction to fire behaviour are classified (see also 5.3):

B

The additional classification in relation to smoke production is:

s1

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

d0

The format of the reaction to fire classification **except for floorings** is:

Fire behaviour		Smoke production			Flaming droplets / particles	
B	-	s	1	,	d	0

i.e., **B-s1, d0**

Reaction to fire classification: **B-s1, d0**

5.3 Field of application

This classification is valid for self-adhesive polypropylene (PP) [*PVC free*] films for promotional and decorative applications “**Decal PVC free R SS BF PE 65 UVP**” and “**Decal PVC free P BF PE 65 UVP**”, **white matte, white glossy, or clear glossy**, smooth finish, when **applied directly on non-combustible surfaces** (classes **A1** or **A2-s1, d0**) having a density greater than 1350 kg/m³ and a thickness equal or greater than 9 mm.



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This classification is **not applicable** to uses of the product over existing coatings, and to painted or printed PP [*PVC free*] films, and is also valid for **Decal PVC free** films, with the following characteristics:

- Mass per unit area (**nominal** value) $\leq 65 \text{ g/m}^2$
- Thickness (**nominal** value) $\leq 70 \mu\text{m}$
- Colour **white or clear**
- Finish smooth, **matte** or **glossy**

6 | Limitations

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

The classification presented in this Classification Report does not exempt the satisfaction of normative requirements (namely in the scope of CE marking) and others defined in the relevant legislation.

Lisboa, LNEC, 16 March 2021

THE HEAD OF THE TESTING
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