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# RELATÓRIO DE CLASSIFICAÇÃO

This document is an authorized English version of the reaction to fire classification report RC-RF 0019/2021-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

<b>Sponsor:</b>	DIGIDELTA INTERNACIONAL - Importação e Exportação, S. A.
<b>Address of the sponsor:</b>	Casal Torteiro, Zona Industrial de Torres Novas 2350-483 Torres Novas
<b>Prepared by:</b>	Laboratório Nacional de Engenharia Civil (LNEC)
<b>Address:</b>	Av. do Brasil, 101, 1700-066 LISBOA PORTUGAL
<b>Description of the sample:</b>	Self-adhesive vinyl films (monomeric PVC), “ <b>Decal vinyl P 100 BO</b> ” and “ <b>Decal vinyl P HT 100 BO</b> ”, white glossy and white matte, smooth finish, with acrylic adhesive, for use on non-porous flat surfaces (excluding floors).
<b>Classification report No:</b>	0019/2021-URF
<b>Date of issue:</b>	2021-03-16

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### 2 | Introduction

This classification report defines the reaction to fire classification assigned to the self-adhesive monomeric PVC films for promotional and decorative applications “**Decal vinyl P 100 BO**” and “**Decal vinyl P HT 100 BO**”, smooth finish (soft calendered), 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 monomeric PVC films “**Decal vinyl P 100 BO**” and “**Decal vinyl P HT 100 BO**”, smooth finish (soft calendered), 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 61/2020-1) – **Decal vinyl P 100 BO**

- Commercial designation..... **Decal vinyl P 100 BO**
- Finish reference..... **glossy, ref. 120z3112WB**
- Material (film) ..... self-adhesive vinyl, monomeric PVC film
- Finish ..... brushed
- Colour ..... **white**
- Mass per unit area (**nominal** value)..... 128 g/m<sup>2</sup> (± 10%)
- Thickness ..... 100 µm (± 10%)
- Adhesive ..... clear acrylic
- *Liner* (removable) ..... clay coated Kraft paper
  - Mass per unit area (**nominal** value) ..... 125 g/m<sup>2</sup> (± 10%)
  - Thickness (**nominal** value) ..... 118 µm (± 10%)
- Field of application ..... flat, smooth non porous surfaces (excluding floors)



# RELATÓRIO DE CLASSIFICAÇÃO

(Sample 62/2020-1) – **Decal vinyl P 100 BO**

- Commercial designation..... **Decal vinyl P 100 BO**
- Finish reference..... **matte, ref. 120z3112WBM**
- Material (film) ..... self-adhesive vinyl, monomeric PVC film
- Finish ..... brushed
- Colour ..... **white**
- Mass per unit area (**nominal** value) ..... 130 g/m<sup>2</sup> (± 10%)
- Thickness ..... 100 µm (± 10%)
- Adhesive ..... clear acrylic
- *Liner* (removable) ..... clay coated Kraft paper
  - Mass per unit area (**nominal** value) ..... 125 g/m<sup>2</sup> (± 10%)
  - Thickness (**nominal** value) ..... 118 µm (± 10%)
- Field of application ..... flat, smooth non porous surfaces (excluding floors)

(Sample 14/2021) – **Decal vinyl P HT 100 BO**

- Commercial designation..... **Decal vinyl P HT 100 BO**
- Finish reference..... **matte, ref<sup>a</sup> 120z3112M.N**
- Material (film) ..... self-adhesive vinyl, monomeric PVC film
- Finish ..... smooth
- Colour ..... **white**
- Mass per unit area (**nominal** value) ..... 130 g/m<sup>2</sup> (± 10%)
- Thickness ..... 100 µm (± 10%)
- Adhesive ..... clear acrylic
- *Liner* (removable) ..... clay coated Kraft paper
  - Mass per unit area (**nominal** value) ..... 125 g/m<sup>2</sup> (± 10%)
  - Thickness (**nominal** value) ..... 118 µm (± 10%)
- Field of application ..... flat surfaces



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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	0006/2021-URF	EN ISO 11925-2:2020
		0007/2021-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 <sub>0,2MJ</sub> (W/s)	1 + 1 + 1 + 1 (1)	1.2 ( --- / 4.9 / --- / --- )	YES
	FIGRA <sub>0,4MJ</sub> (W/s)		1.2 ( --- / 4.9 / --- / --- )	(YES)
	LFS < edge		YES ( YES / YES / YES / YES )	YES
	THR <sub>600s</sub> (MJ)		0.9 ( 0.6 / 0.9 / 0.8 / 1.1 )	YES
	SMOGRA (m <sup>2</sup> /s <sup>2</sup> )		--- ( --- / --- / --- / --- )	YES
	TSP <sub>600s</sub> (m <sup>2</sup> )		25 ( 20 / 22 / 23 / 33 )	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	<b>F<sub>s</sub></b>		< 20	<b>YES</b> (F <sub>s</sub> ≤ 150 mm)
Edge and surface exposure to flame  Exposure time: 30 s	Flaming droplets/particles	2 + 2 <sup>(2)</sup> 3 + 3 <sup>(2)</sup> 1 + 1 <sup>(2)</sup>	NO	<b>YES</b>
	Ignition of the filter paper		NO	<b>YES</b>

\* - Mean value of the results obtained with samples refs. **Decal vinyl P 100 BO** and **Decal vinyl P HT 100 BO**, white glossy and white matte.

<sup>1</sup>- Results obtained with samples refs. **Decal vinyl P 100 BO** and **Decal vinyl P HT 100 BO**, white glossy (1), white matte (3).

<sup>2</sup>- Results obtained with samples refs. **Decal vinyl P 100 BO** and **Decal vinyl P HT 100 BO**, white glossy (2 + 2), white matte (3 + 3 e 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 monomeric PVC films for promotional and decorative application “**Decal vinyl P 100 BO**” and “**Decal vinyl P HT 100 BO**”, white matte or white 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>B</b>	-	<b>s</b>	<b>1</b>	,	<b>d</b>	<b>0</b>

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

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

## 5.3 Field of application

This classification is valid for self-adhesive monomeric PVC films for promotional and decorative applications “**Decal vinyl P 100 BO**” and “**Decal vinyl P HT 100 BO**”, colour **white, matte** or **glossy**, smooth finish, when **applied directly** on **non-combustible surfaces** (classes **A1** or **A2-s1, d0**) having a density greater than 1350 kg/m<sup>3</sup> 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 monomeric PVC films, and is also valid for **Decal vinyl** (monomeric PVC) films, with the following characteristics:

- Mass per unit area (**nominal** value).....  $\leq 145 \text{ g/m}^2$
- Thickness (**nominal** value) .....  $\leq 110 \text{ }\mu\text{m}$
- Colour ..... **white**
- 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  
LABORATORY

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**Visto**  
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