# **Classification report**

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:

Description of the sample:	Self-adhesive vinyl films (monomeric PVC), "PVC Vinyl 100 microns permanent blockout", white glossy, white matte, smooth finish, with acrylic adhesive, for use on non-porous flat surfaces (excluding floors).		
Classification report No:	0019/2021-URF		
Date of issue:	2021-03-16		

### 2 | Introduction:

This classification report defines the reaction to fire classification assigned to the self-adhesive monomeric PVC films for promotional and decorative applications "**PVC Vinyl 100 microns permanent blockout**". smooth finish (soft calendered), white matte or white glossy, with acrylic adhesive and removable Double Sided PE, for flat and nonporous 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.

### **3** | Details of the classified Product:

### 3.1 General

The classified products for decorative and promotional applications, for flat and nonporous surfaces (excluding floors), consisted of self-adhesive monomeric PVC films "**PVC** *Vinyl 100 microns permanent blockout*" and, smooth finish (soft calendered), white matte or white glossy.

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### **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:

#### (Sample 61/2020-1) – "PVC Vinyl 100 microns permanent blockout":

- Commercial designation: "PVC Vinyl 100 microns permanent blockout"
- Material (film):self-adhesive vinyl, monomeric PVC film
- Finish reference Glossy
- Finish: brushed
- Colour : white
- Mass per unit area (nominal value): 128 g/m2 (± 10%)
- Thickness: 100 μm (± 10%)
- Adhesive: clear acrylic
- Liner (removable): Double Sided PE Mass per unit area (nominal value): 125 g/m2 (± 10%) Thickness (nominal value): 118 μm (± 10%)
- Field of application: flat, smooth non porous surfaces (excluding floors)

#### (Sample 61/2020-1) – "PVC Vinyl 100 microns permanent blockout"

- Commercial designation: "PVC Vinyl 100 microns permanent blockout"
- Material (film):self-adhesive vinyl, monomeric PVC film
- Finish reference matte
- Finish: brushed
- Colour : white
- Mass per unit area (nominal value): 128 g/m2 (± 10%)
- Thickness: 100 µm (± 10%)
- Adhesive: clear acrylic
- Liner (removable): Double Sided PE Mass per unit area (nominal value): 125 g/m2 (± 10%)
  Thislenges (nominal value): 110 ymm (± 10%)
  - Thickness (**nominal** value): 118 μm (± 10%)
- Field of application: flat, smooth non porous surfaces (excluding floors)

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### 4.1 | Test reports and test results in support of classification:

Name of Laboratory	Name of sponsor	Report No.	Test method and date
		0006/2021-URF	EN ISO 11925-2:2020
LNEC/EM-URF		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:

			Results			
Test method(s) Parar	Parameter	No. test specimens	Continuous parameter mean values * (individual values)	Compliance with parameters		
	FIGRA <sub>0,2MJ</sub> (W/s)		<b>1.2</b> ( / 4.9 / / )	YES		
	FIGRA <sub>0,4MJ</sub> (W/s)		1.2 (/4.9//)	(YES)		
	LFS < edge		YES ( YES / YES / YES / YES	) YES		
EN 13823:2020	THR <sub>600s</sub> (MJ)	1 + 1 + 1 +1 (1)	<b>0.9</b> ( 0.6 / 0.9 / 08 / 1.1 )	YES		
(SBI test)	SMOGRA (m <sup>2</sup> /s <sup>2</sup> )	(1)	( / / )	YES		
	TSP <sub>600s</sub> (m <sup>2</sup> )		<b>25</b> ( 20 / 22 / 23 / 33 )	YES		
	FDP		<b>NO</b> (NO / NO / NO / NO)	YES		
			Results			
Test method(s)	Parameter	No. test specimens	Continuous parameter	Compliance with		
			(individual values)	parameters		
EN ISO 11925- 2:2020	Fs		< 20	<b>YES</b> (Fs ≤ 150 mm)		
Edge and surface exposure to flame	Flaming droplets/particles	2 + 2 <sup>(2)</sup> 3 + 3 <sup>(2)</sup> 1 +1 <sup>(2)</sup>	NO	YES		
Exposure time: 30 s	lgnition of the filter paper		NO	YES		

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### 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).

#### 5.2 Classification

Self-adhesive monomeric PVC films for promotional and decorative application "**PVC** *Vinyl 100 microns permanent blockout"* white matte or white glossy, smooth finish, in relation to their reaction to fire behaviour are classified (*see also* 5.3):

### В

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	
В	-	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 monomeric PVC films for promotional and decorative applications ""PVC Vinyl 100 microns permanent blockout" 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/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 monomeric PVC films, and is also valid for **PVC Vinyl** (monomeric PVC) films, with the following characteristics:

- Mass per unit area (nominal value): ≤ 145 g/m2
- Thickness (nominal value):  $\leq$  110 µm
- Colour: white
- Finish: smooth, matte or glossy