

# ***Reaction to fire classification report No. 18631N***

## **Owner of the classification report**

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## **Introduction**

This classification report defines the classification assigned to the product '**VERALITE 100**' in accordance with the procedures given in the standard EN 13501-1:2007+A1:2009: Fire classification of construction products and building elements - Part 1: classification using data from reaction to fire tests.

**This classification report consists of 6 pages**

## 1. DETAILS OF CLASSIFIED PRODUCT

### a) Nature and end use application

The product **VERALITE 100** is defined as an 'Amorphous Polyethylene Terephthalate (APET) sheet'.

Its classification is valid for the following end use application(s):

Used as protection sheet, advertising.

### b) Description of the tested product(s)

*This description is based on information given by the sponsor.*

Nominal values	
<b>VERALITE 100</b>	
Type of product	Flat solid Amorphous Polyethylene Terephthalate (APET) sheet provided on both sides with a protective plastic foil (release liner). In accordance with the end-use application the plastic foils have been removed before testing.
Manufacturer	IPB nv
Thickness (mm)	0,74 (*)                      6
Density (kg/m <sup>3</sup> )	1330
Use of fire retardants	No
Colour	Transparent
Surface structure	Smooth

(\*) Measured by the laboratory

More details (e.g. mounting and fixing) are available in the test reports in support of this classification (§2a).

## 2. TEST REPORTS AND EXAP REPORTS AND TEST RESULTS IN SUPPORT OF THIS CLASSIFICATION

### a) Test reports (and EXAP reports)

Name of the laboratory	Name of the sponsor	Test report ref. No. and test date	Test method
WFRGENT nv Ghent, Belgium	IPB nv Waregem, Belgium	18631A: 06/11/2017 18631B: 06/11/2017	EN ISO 11925-2 (November 2010/AC:2011)
WFRGENT nv Ghent, Belgium	IPB nv Waregem, Belgium	18631C: 06/11/2017 18631D: 06/11/2017 & 09/11/2017	EN 13823 (July 2010+A1:2014)
WFRGENT nv Ghent, Belgium	IPB nv Waregem, Belgium	18631E	EXAP according to CEN/TS 15117 (August 2005)

### b) Test results

#### **Official test results used for the classification**

Test method	Parameter	Number of tests	Results		Criteria for Class B-s1,d0	
			Continuous parameters Mean	Compliance parameters	Continuous parameters	Compliance parameters
<b>EN ISO 11925-2 (*) (1)</b> 30 s flame application:						
<u>Surface exposure</u>	$F_s \leq 150$ mm	6	(-)	Yes	(-)	Yes
- front side	Ignition filter paper		(-)	No	(-)	No
<u>Edge exposure (**)</u>	$F_s \leq 150$ mm	(-)	(-)	(-)	(-)	(-)
- front side	Ignition filter paper		(-)	(-)	(-)	(-)
(*) The material melted but didn't pull away from the pilot burner.						
(**) Since there's protection of the cut edges (material of Euroclass A2-s1,d0 or better) in the end-use application(s), edge exposure is considered to be not applicable.						
(1) Based on the results obtained in test report No. 18631B – VERALITE 100 – 0,74 mm.						
<b>EN 13823 (2)</b>	FIGRA <sub>0,2 MJ</sub> (W/s)	3	0	(-)	$\leq 120$	(-)
	FIGRA <sub>0,4 MJ</sub> (W/s)		0	(-)	(-)	(-)
	LFS <sub>&lt;edge</sub>		(-)	Yes	(-)	Yes
	THR <sub>600s</sub> (MJ)		0,1	(-)	$\leq 7,5$	(-)
	SMOGRA (m <sup>2</sup> /s <sup>2</sup> )		0	(-)	$\leq 30$	(-)
	TSP <sub>600s</sub> (m <sup>2</sup> )		24	(-)	$\leq 50$	(-)
	Flaming droplets/particles					
	f < 10 s		(-)	No	(-)	No
	f > 10 s		(-)	No	(-)	No
(2) Based on the results obtained in test report No. 18631D – VERALITE 100 – 6 mm.						

(-) Not applicable.

### Comparative test results used for the determination of the worst case thickness

EN ISO 11925-2

	$F_s \leq 150\text{mm}$	Ignition filter paper	Average maximal flame spread (mm) (**)
<i>Test report No. 18631A</i>			
Sample 1 (*): VERALITE 100 – 0,74 mm	Yes	Yes	43,3
Sample 2: VERALITE 100 – 6 mm	Yes	Yes	17,5

(\*) The test results of this sample were reused in the official test report No. 18631B.

(\*\*) The average maximal flame spread value was calculated over the 3 executed edge exposures and the 3 executed surface exposures.

EN 13823

	FIGRA (W/s) <i>Threshold 1</i>	FIGRA (W/s) <i>Threshold 2</i>	THR <sub>600S</sub> (MJ)	SMOGRA (m <sup>2</sup> /s <sup>2</sup> )	TSP <sub>600S</sub> (m <sup>2</sup> )
<i>Test report No. 18631C</i>					
Sample 1: VERALITE 100 – 0,74 mm	0	0	0,1	0	23
Sample 2 (*): VERALITE 100 – 6 mm	0	0	0,1	0	24

(\*) The test results of this sample were reused in the official test report No. 18631D (see sample 1).

### 3. CLASSIFICATION AND FIELD OF APPLICATION

#### a) Reference of classification

This classification has been carried out in accordance with EN 13501-1:2007+A1:2009. The product standard EN 16240:2013 (solid polycarbonate sheets) has been used as guideline for the mounting and fixing in the SBI test (EN 13823).

#### b) Classification

The product **VERALITE 100** in relation to its reaction to fire behavior is classified as:

Fire behavior	Smoke production	Flaming droplets
<b>B</b>	<b>s1</b>	<b>d0</b>

c) Field of application

This classification for the product as described in §1b, is valid for the following end use conditions:

- Freestanding
- With edge finishing of Euroclass A2-s1,d0 or better (protection of cut edges)
- Without joints

This classification is valid for the following product parameters:

- Nominal thickness: 0,74 mm – 6 mm
- Nominal density: 1330 kg/m<sup>3</sup>
- Colour: Transparent
- Surface structure: Smooth
- No use of fire retardants

#### 4. RESTRICTIONS

At the time the standard EN 13501-1:2007+A1:2009 was published, no decision was made concerning the duration of validity of a classification report.

Provisions of Regulation (EU) 305/2011, commonly known as the Construction Products Regulation (CPR), prevail over any conflicting provisions in the harmonised standards and technical specifications.

## 5. WARNING

This classification report does not represent type approval nor certification of the product.

According to the information mentioned by the sponsor on the technical information sheet there was no product standard for CE marking available at the time the classification report for the tested material/product was drafted.

When such a product standard is published, this report may be submitted again to the laboratory to evaluate the adequacy of the report for CE marking.

The sponsor of this report has nevertheless committed himself to a System 3 Assessment and Verification of Constancy of Performance (AVCP).

PREPARED BY

APPROVED BY

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