Additional reaction to fire classification report No. 20368K

Owner of the additional classification report

Exolon Group NV
Wakkensesteenweg 47
8700 Tielt
Belgium

Introduction

This additional classification report defines the classification assigned to the products **'Exolon UV white 2150 and Exolon GP White 150'** 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 additional classification report consists of 8 pages

This report is additional to that issued as No. 12684C, dated 11/06/2007 (including supplementary report, dated 19/01/2016). This report is drafted in accordance with the regulations of EGOLF Agreement EGA 039:2021 "7.8 – Reporting of results". The original report remains valid and is not replaced by this report. The product has not been retested and this report does not involve technical changes or technical reviews of the original report. All written declarations of the sponsor concerning the changes are maintained in the laboratory records.

1. DETAILS OF CLASSIFIED PRODUCT

a) Nature and end use application

The products **Exolon UV white 2150 and Exolon GP White 150** are defined as 'polycarbonate sheets'.

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

'Used for wall cladding, walls, ceilings, window panes, advertisement, roofs, light domes, light covers and design'.

b) Description

This description is based on information given by the sponsor.

	Nominal values
Product X – known by the laboratory	
Type of product	The tested material consists of a transparent, homogeneous polycarbonate sheet with a UV protection layer on each side. The polycarbonate plate and each of the protection layers contain a UV absorber.
Total thickness (mm)	1, 3 and 4
Total density (kg/m³)	1200
Product Y – known by the laboratory	
Type of product	The tested material consists of a transparent, homogenous polycarbonate sheet. The product is identical to the product X (known by the laboratory) but without the UV protection layer.
Total thickness (mm)	3 and 4
Total density (kg/m³)	1200
Exolon UV white 2150	
Type of product	The tested material consists of a white homogenous polycarbonate sheet with a UV protection layer on each side. The polycarbonate plate and each of the protection layers contain a UV absorber.
Total thickness (mm)	3
Total density (kg/m³)	1200
Exolon GP white 150	
Type of product	The tested material is identical to the product 'Exolon UV white 2150' but without the UV protection layers.
Total thickness (mm)	3
Total density (kg/m³)	1200

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

a) Test reports

Name of the laboratory	Name of the sponsor	Test report ref. No. and test date	Test method
WFRGENT nv Ghent, Belgium	Exolon Group NV	11747A: 23/05/2005 11747D: 23/09/2005 11843: 25/05/2005 12684A: 12/03/2007	EN 13823 (February 2002)
WFRGENT nv Ghent, Belgium	Exolon Group NV	11747B: 23/05/2005 11747C: 27/09/2005 12684B: 12/03/2007	EN ISO 11925-2 (February 2002)
WFRGENT nv Ghent, Belgium	Exolon Group NV	11748E	EXAP according to CEN TC127 N2157

b) Test results

Test method	Parameter	Number of tests	Results		Criteria for Class B-s1,d0	
			Continuous parameters Mean	Compliance parameters	Continuous parameters	Compliance parameters
EN ISO 11925-2 (*) (1) 30 s flame application: Surface exposure - front side	$F_s \leq 150$ mm Ignition filter paper	6	(-) (-)	Yes No	(-) (-)	Yes No
EN ISO 11925-2 (*) (2) 30 s flame application: Surface exposure - front side	$F_s \leq 150$ mm Ignition filter paper	6	(-) (-)	Yes No	(-) (-)	Yes No
EN ISO 11925-2 (*) (3) 30 s flame application: Surface exposure - front side	$F_s \leq 150$ mm Ignition filter paper	6	(-) (-)	Yes No	(-) (-)	Yes No

(-) Not applicable.
(*) The material didn't melt nor pull away from the pilot burner.
(1) Based on the results obtained in test report No. 11747B – Product X (1 mm).
(2) Based on the results obtained in test report No. 11747C – Product X (3 mm).
(3) Based on the results obtained in test report No. 12684B.

Test method	Parameter	Number of tests	Results		Criteria for Class B-s1,d0	
			Continuous parameters Mean	Compliance parameters	Continuous parameters	Compliance parameters
EN 13823 (4)	FIGRA $_{0,2\ MJ}$ (W/s)	3	0	(-)	≤ 120	(-)
	FIGRA $_{0,4\ MJ}$ (W/s)		(-)	(-)	(-)	(-)
	LFS$_{<edge}$		(-)	Yes	(-)	Yes
	THR$_{600s}$ (MJ)		0,3	(-)	≤ 7,5	(-)
	SMOGRA (m²/s²)		0	(-)	≤ 30	(-)
	TSP$_{600s}$ (m²)		23	(-)	≤ 50	(-)
	Flaming droplets/particles					
	f < 10 s		(-)	No	(-)	No
	f > 10 s		(-)	No	(-)	No
EN 13823 (5)	FIGRA $_{0,2\ MJ}$ (W/s)	3	12	(-)	≤ 120	(-)
	FIGRA $_{0,4\ MJ}$ (W/s)		(-)	(-)	(-)	(-)
	LFS$_{<edge}$		(-)	Yes	(-)	Yes
	THR$_{600s}$ (MJ)		1,7	(-)	≤ 7,5	(-)
	SMOGRA (m²/s²)		3	(-)	≤ 30	(-)
	TSP$_{600s}$ (m²)		45	(-)	≤ 50	(-)
	Flaming droplets/particles					
	f < 10 s		(-)	No	(-)	No
	f > 10 s		(-)	No	(-)	No
EN 13823 (6)	FIGRA $_{0,2\ MJ}$ (W/s)	1	10	(-)	≤ 120	(-)
	FIGRA $_{0,4\ MJ}$ (W/s)		(-)	(-)	(-)	(-)
	LFS$_{<edge}$		(-)	Yes	(-)	Yes
	THR$_{600s}$ (MJ)		1,3	(-)	≤ 7,5	(-)
	SMOGRA (m²/s²)		3	(-)	≤ 30	(-)
	TSP$_{600s}$ (m²)		40	(-)	≤ 50	(-)
	Flaming droplets/particles					
	f < 10 s		(-)	No	(-)	No
	f > 10 s		(-)	No	(-)	No
EN 13823 (7)	FIGRA $_{0,2\ MJ}$ (W/s)	2	7	(-)	≤ 120	(-)
	FIGRA $_{0,4\ MJ}$ (W/s)		(-)	(-)	(-)	(-)
	LFS$_{<edge}$		(-)	Yes	(-)	Yes
	THR$_{600s}$ (MJ)		1,3	(-)	≤ 7,5	(-)
	SMOGRA (m²/s²)		1	(-)	≤ 30	(-)
	TSP$_{600s}$ (m²)		12	(-)	≤ 50	(-)
	Flaming droplets/particles					
	f < 10 s		(-)	No	(-)	No
	f > 10 s		(-)	No	(-)	No

(-) Not applicable.
(4) Based on the results obtained in test report No. 11747A – Product X (1 mm).
(5) Based on the results obtained in test report No. 11747D – Product X (3 mm).
(6) Based on the results obtained in test report No. 11843 – Product Y (3 mm).
(7) Based on the results obtained in test report No. 12684A.

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.

b) Classification

The products '**Exolon UV white 2150 and Exolon GP white 150'** in relation to their reaction to fire behavior are classified as:

Fire behavior	Smoke production	Flaming droplets
B	**s1**	**d0**

Field of application for the classification

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

- With a void
- Protection of the cut edges with a metal frame
- Without joints

This classification is valid for the following product parameters:

- Nominal thickness : all thicknesses between or equal to 1 mm and 3 mm
- Nominal density: 1200 kg/m³
- Colour: White

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.

a) Concerning Declaration of Performance (DoP) according to CPR

The classification assigned to the product in this report is appropriate to a Declaration of Performance (DoP) of the essential characteristics of the construction product by the manufacturer within the context of a System 3 Assessment and Verification of Constancy of Performance (AVCP).
Under the Construction Products Regulation (CPR: EU 305/2011), such a Declaration of Performance (DoP) is a requirement for affixing the CE marking.

The manufacturer has made a declaration, which is held on file. This confirms that the product's 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 a System 3 Assessment and Verification of Constancy of Performance (AVCP) is appropriate.
The test laboratory has played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide evidence for the traceability of the samples tested.

b) Concerning Declaration of Conformity according to CPD (following EN 13501-1:2007+A1:2009)

According to EN 13501-1:2007+A1:2009: Annex B - Reaction to fire classification report § 5 'Limitations':
"The classification assigned to the product in this report is appropriate to a Declaration of Conformity by the manufacturer within the context of a System 3 Attestation of Conformity and CE marking under the Construction Products Directive."

"The manufacturer has made a declaration, which is held on file. This confirms that the product's 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."

SIGNED

Niek De Pauw (Signature)
Project Leader
Ghent
2021.05.26 12:12:31 +02'00'

APPROVED

Bart Sette (Signature)
General Manager
Ghent
2021.05.27 11:23:32 +02'00'