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Testing. Advising. Assuring.

Title:

CLASSIFICATION OF
REACTION TO FIRE
PERFORMANCE
IN ACCORDANCE WITH
EN 13501-1:2007+A1: 2009

Notified Body No:

0833

Product Name:

Palight /Palfoam

Report No:

192567

Issue No:

1

Prepared for:

Palram Industries Limited
Kibbutz Ramat Yohanan
30035 Israel

Date:

20th May 2010

1. Introduction

This classification report defines the classification assigned to “Palight / Palfoam”, a flat foamed polyvinyl chloride (PVC) sheet, in line with the procedures given in EN 13501-1:2007+A1: 2009.

2. Details of classified product

2.1 General

The product, “Palight / Palfoam”, a flat foamed polyvinyl chloride (PVC) sheet, is defined as being suitable for construction applications, excluding flooring and linear pipe thermal insulation.

2.2 Product description

The product, “Palight / Palfoam”, a flat foamed polyvinyl chloride (PVC) sheet is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

General description	A flat foamed polyvinyl chloride sheet (PVC)
Generic type	Foamed PVC
Trade name / product reference	“Palight\Palfoam”
Name of manufacturer	Palram PVC
Thickness	1mm (Stated by sponsor) 0.96mm (Determined by Exova Warringtonfire)
Density	0.5g/cm ³ – 0.7g/cm ³ (Stated by sponsor) 0.74 g/cm ³ (Determined by Exova Warringtonfire)
Colour	“White”
Flame retardant details	The sponsor of the test has confirmed that no flame retardant additives were utilised in the production of the component.
Mounting and fixing details	The specimens were tested clamped into a “window” frame manufactured from 5mm steel sheet. A one piece, ‘L’ shaped frame was placed into the test position with the product butted up behind it. A rectangular shaped frame was then butted up behind each wall of the sample and clamped into place at the top and bottom. 5mm thick steel angle (40mm x 40mm) was placed along the full length of the unexposed edge of the corner joint and clamped into position to secure it utilising bars at the top and bottom of the angle, each extending 200mm along each wing such that each could be retained by the clamps nearest to the corner joint.
Air space details	A 180mm ventilated cavity was situated between the reverse face of each specimen and the backing board
Brief description of manufacturing process	This product is produced with extrusion technology

3. Test reports & test results in support of classification

3.1 Test reports

Name of Laboratory	Name of sponsor	Test reports/extended application report Nos.	Test method / extended application rules & date
Exova warringtonfire	Palram Industries Limited	WF 192550	EN ISO 11925-2
Exova warringtonfire	Palram Industries Limited	WF 192546	EN 13823

3.2 Test results

Test method & test number	Parameter	No. tests	Results	
			Continuous parameter - mean (m)	Compliance parameters
EN ISO 11925-2 (30s exposure - surface)	F _s	6	31.6	Compliant
	Flaming droplets/ particles		None	Compliant
EN ISO 11925-2 (30s exposure – edge)	F _s	6	46.7	Compliant
	Flaming droplets/ particles		None	Compliant
EN 13823	FIGRA _{0.2MJ}	3	0.00	Compliant
	FIGRA _{0.4 MJ}		0.00	Compliant
	THR _{600s}		0.40	Compliant
	LFS		None	Compliant
	SMOGRA		16.56	Compliant
	TSP _{600s}		27.24	Compliant

4. Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with clause 8 of EN 13501-1:2007+A1:2009.

4.2 Classification

The product, "Palight / Palfoam", a flat foamed polyvinyl chloride (PVC) sheet, in relation to its reaction to fire behaviour is classified:

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 for construction products excluding floorings is:

Fire Behaviour		Smoke Production			Flaming Droplets	
B	-	s	1	,	d	0

i.e. **B – s1 , d0**

Reaction to fire classification: B – s1 , d0

4.3 Field of application

This classification is valid for the following end use applications:

- i) Construction applications mechanically installed without the presence of a substrate and with a minimum air gap of 180mm.

This classification is also valid for the following product parameters:

Product thickness	No variation allowed
Product density	No variation allowed
Product composition	No variation allowed
Product construction	No variation allowed
Product colour	No variation allowed

5. Limitations

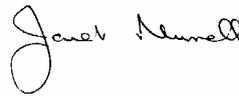
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SIGNED



.....
Matthew Dale
Certification Engineer

APPROVED



.....
Janet Murrell
Technical Manager
For and on behalf of:
Exova Warringtonfire

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