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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:

"Palsun", "Palsun 2UV",
"Paltuf", "Palgard", "Suntuf",
"Suntuf 2UV", "Suntuf Plus"

Report No:

329269

Issue No:

1

Prepared for:

Palram Europe Limited,
Unit 2 Doncaster Carr
Industrial Estate, White Rose
Way, Doncaster DN4 5JG

Date:

8th June 2013

1. Introduction

This classification report defines the classification assigned to "Palsun", a solid polycarbonate sheet, in accordance with the procedures given in EN 13501-1:2007 +A1: 2009

The product referenced 'Palsun' can also be named "Palsun 2UV", "Paltuf", "Palgard", "Suntuf", "Suntuf 2UV", "Suntuf Plus"

2. Details of classified product

2.1 General

The product, "Palsun", a solid polycarbonate sheet is defined as suitable for construction applications, excluding flooring and linear pipe thermal insulation.

2.2 Product description

The product, "Palsun", a solid polycarbonate sheet, is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

Product	
General description	A solid polycarbonate sheet
Product reference	"Palsun"
Generic type	polycarbonate
Name of manufacturer	Palram
Thickness	1.5 – 6 mm
Density	1.2 g/cm ³
Colour	any
Flame retardant details	See Note 1 below
Brief description of manufacturing process	Sheet extrusion
Air space details	A 180 mm ventilated cavity was situated between the reverse face of each specimen and the backing board
Density / weight per unit area	180 - 720 g/m ²

Note 1. The sponsor of the test has confirmed that no flame retardant additives were utilised in the production of the product

3. Test reports & test results in support of classification

3.1 Test reports

Name of Laboratory	Name of sponsor	Test reports Nos.	Test method
Exova warringtonfire	Palram Europe Limited	WF 328539, WF 328546, WF 328547, WF 328539	EN 13823
Exova warringtonfire	Palram Europe Limited	WF 328532, WF 329875	EN ISO 11925-2
Exova warringtonfire	Palram Europe Limited	WF 329835	EN/TS 15117

3.2 Test results

Test method & test number	Parameter	No. tests	Results	
			Continuous parameter - mean (m)	Compliance parameters
EN 13823	Figra _{0.2 MJ} (W/s)	3 + 3 + 1 +1	23.8	Compliant
	THR _{600 s} (MJ)		2.47	Compliant
	Smogra (m ² /s ²)		4.4	Compliant
	TSP _{600 s} (m ²)		47.1	Compliant
	LFS (y/n)		N	Compliant
	Flaming droplets (y/n) <10 s (y/n) >10 s (y/n)		N	Compliant
EN ISO 11925-2 30 s surface exposure	Flame spread (mm)	6 + 6	2	Compliant
	Flaming droplets (y/n)		None	Compliant
30 s edge exposure	Flame spread (mm)	6 + 6	31	Compliant
	Flaming droplets (y/n)		none	Compliant

The values listed are the 'worst case' results for a full set of test results achieved on the thickness range covered in this report.

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, "Palsun", a solid polycarbonate sheet, in relation to its reaction to fire behaviour is classified:

Reaction to fire classification: B-s1, d0

4.3 Field of application

This classification is valid for the following end use applications:

- i) Wall and ceiling applications
- ii) Free standing

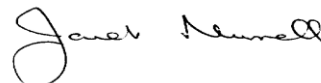
This classification is also valid for the following product parameters:

Product thickness	1.5 – 6 mm
Colour	any
Product composition	No variation allowed

The product referenced 'Palsun' can also be named "Palsun 2UV", "Paltuf", "Palgard", "Suntuf", "Suntuf 2UV", "Suntuf Plus"

SIGNED

APPROVED



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Frans Paap
Certification Engineer

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Janet Murrell
Technical Manager
on behalf of **Exova Warringtonfire**

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