

Prohlášení o vlastnostech dle nařízení CRP EU č. 305/2011

- 1) **Jedinečný identifikační kód výrobku:**
Polykarbonátové desky PALSUN
- 2) **Označení typu výrobku:**
Polykarbonátové desky čiré/ probarvené
- 3) **Zamýšlené použití:**
Vnitřní a vnější použití ve střeších, stěnách a stropech
- 4) **Jméno a kontaktní adresa výrobce:**
Palram Europe Ltd. Unit 2, Doncaster Carr Industrial Estate White Rose Way, Doncaster DN4 5JH, United-Kingdom Tel: +44 1302 380777 E-mail: sales.europe@palram.com
- 5) **Jméno a kontaktní adresa zplnomocněného zástupce:**
Není relevantní/ NPD
- 6) **Systém nebo systémy posuzování a ověřování stálosti vlastností stavebních výrobků:**
Systém 3
- 7) **Harmonizovaná norma:**
ČSN EN 16240:2015 - Prosvětlovací ploché plné desky z polykarbonátu (PC) pro vnitřní a vnější použití ve střeších, stěnách a stropech – Požadavky a zkušební metody
Reakce na oheň dle ČSN EN 13501-1:2007+A1:2009 otestováno Exova Warringtonfire
Holmesfield Road, Warrington, WA1 2DS, United Kingdom
- 8) **Deklarované vlastnosti:**

Základní vlastnosti	Hodnota
Chování při vnějším požáru	F _{ROOF} (NPD)
Reakce na oheň	B-s1,d0/ nad 6mm NPD
Požární odolnost	NPD
Propustnost vodní páry	3,8 x 10 ⁻⁵ mg/m h Pa
Propustnost vody / vzduchu	vyhovuje
Uvolňování nebezpečných látek	NPD/ prohlášení RoHS, REACH
Tolerance rozměrů	Vyhovuje
Vlastnosti tříštění (bezpečné rozbití):	
-Odolnost proti nárazu malého tvrdého tělesa	Vyhovuje
-Odolnost proti nárazu velkého měkkého tělesa (sestava)	Vyhovuje
Mechanická odolnost (deformační chování)	E _{f,mean} ≥ 2200 Mpa
	E _{f,charac} ≥ 2000 Mpa
	σ _{M,mean} ≥ 60 Mpa
	σ _{M,charac} ≥ 55 MPa
Vzduchová neprůzvučnost	NPD
Součinitel prostupu tepla	viz přehled
Světelná propustnost	viz přehled
Celkový činitel prostupu solární energie	NPD
Odolnost při upevnění: Způsob uchycení dle technického listu výrobce	
Trvanlivost, index žloutnutí	Opál: A2 Všechny ostatní: A1
Trvanlivost, světelná propustnost	
Trvanlivost, pevnost v tahu	

9) Prohlášení:

Vlastnosti výše uvedeného výrobku/ů jsou ve shodě se souborem deklarovaných vlastností. Toto prohlášení o vlastnostech je v souladu s nařízením EU č. 305/2011, vydané na výhradní odpovědnost výrobce uvedeného výše.

Podepsaný v zastoupení výrobce:
Ve Smržovce, 14.6.2021



Ing. Václav Heinrich
Obchodní ředitel

Příloha 1: Certifikace hořlavost
Příloha 3: Certifikace hořlavost 2
Příloha 3: Prohlášení Reach
Příloha 4: Prohlášení RoHS

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	Paltram
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	160 - 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

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



Frans Paap
Certification Engineer

APPROVED



Janet Murrell
Technical Manager
on behalf of Exova Warringtonfire

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August 2020

Subject: EN 13501-1 classification for Polycarbonate solid sheet

Polycarbonate solid sheets up to 6 mm can be tested in the Single Burning Item (SBI = EN 13823) and typically obtain a class B, s_x, d₀ according EN 13501-1

Above 6 mm however, too much molten polycarbonate (PC) drips into the burner during the test and will block the burner, so the test has to be stopped and will give an invalid result, no classification possible.

For PC solid sheet therefore, we cannot obtain a valid EN 13501-1 classification for thicknesses above 6 mm.

EN = European Norm

CEN = Comité Européenne de Normalisation

This test problem has been brought to the attention of CEN TC127, responsible for the fire test norms in Europe, but until now no solution has been found.



Ir. M. Koppers
Technical Consultant to EPSE

Thijs.koppers@home.nl

Příloha 3:

Palram Industries Ltd

Palram REACH Declaration - Brief No. 22

Update: May 4th, 2021

Dear Customer,

In order to ensure proper implementation of the REACH regulation, we have established a dedicated team of professionals to examine the obligations of our products and substances according to the REACH rules. Our team is managing a detailed inventory of all substances used in Palram products, including the yearly amount of each substance exported to our EU customers, in order to enable a profound understanding of the activities that must be accomplished. Under REACH regulation, our products are defined "Articles" and as such are subject to requirements related to "substances in Articles" as defined in Articles 7 & 33 of the regulation, namely Registration, Notification and the duty to communicate Information throughout our supply chains. Details of our obligations, activities and commitments within REACH are as follows:

Registration: The comprehensive examination conducted by our REACH team on polymer articles manufactured by Palram proved that no intended substance release from the polymeric matrix of Palram's products occurred under normal and foreseeable conditions of use. Therefore, to the best of our knowledge, substances contained in our products are exempt from registration obligation (Art. 7.1).

Notification: The obligation of notification is effective since June 1st 2011. No substance from the current Candidate List for Authorization (SVHC updated by ECHA on January 19th, 2021) found in Palram's products ([LINK](#) to last updated Candidate List, [LINK](#) to candidate list substances in articles) therefore there is no need for additional measures to be taken concerning notification activity. Nevertheless, Palram continuously examines the Candidate List for Authorization, which is updated regularly, and so is its applicability to our products.

Information: Based on supplier information, Palram products do not contain substances currently defined by ECHA as Substances of Very High Concern (SVHC) above the applicable threshold (0.1%). Since we do not analyze these components, this statement is based on information received from our raw material suppliers. Palram, as a downstream user, works closely with its suppliers. Please note all efforts are made on a regular basis to obtain the most updated and precise information regarding the presence of SVHC in the products supplied to Palram by its suppliers. If it is detected, as a result of the next Candidate List updates, that some of our products' constituents are included in the SVHC list, we will provide all our customers with data regarding substances contained in our products to allow safe usage (Article 33). The statement above is valid and accurate as of the date of this letter and to the best of our knowledge for Palram products in original sale condition.

Palram will continue to keep up-to-date with the evolving REACH regulation and make sure it fully satisfies all requirements.

Palram Industries Ltd
Ramat Yohanan, Israel
Technology Department

Příloha 4:



PALRAM INDUSTRIES (1990) LTD.

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Thermoplastic Sheets for Construction, Industry, Advertising and Agriculture

March 11, 2019

To whom it may concern:

The entire range of Palram products complies with the requirements of the European Union's RoHS-3 Directive 2015/863 regarding the concentrations of:

- heavy metals and heavy metal compounds of lead (Pb), cadmium (Cd), mercury (Hg) and hexavalent chromium (Cr VI),
- flame retardants based on polybrominated biphenyls (PBB) and polybrominated diphenyl ethers (PBDE)
- phthalates (DEHP, BBP, DBP and DIBP).

Since we do not analyze these components, the above statements are based on information received from our raw material suppliers. Please note that all efforts were made in contacting the suppliers in effort to obtain precise information. The statements above are valid and accurate as of the date of this letter and to the best of our knowledge for Palram products in original sale condition.

Sincerely,

Palram Industries Ltd.