

CLASSIFICATION OF REACTION TO FIRE **FIRES-CR-170-20-AUPE**

Extruded polystyrene sheets POLYCASA® PS

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CLASSIFICATION OF REACTION TO FIRE IN ACCORDANCE WITH EN 13501-1: 2018 with direct field of application

FIRES-CR-170-20-AUPE

Name of the product: Extruded polystyrene sheets POLYCASA® PS

Sponsor: Polycasa Slovakia s.r.o.
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1. INTRODUCTION

This classification report defines the reaction to fire classification assigned to element Extruded polystyrene sheets POLYCASA® PS in accordance with the procedures given in EN 13501-1: 2018.

2. DETAILS OF CLASSIFIED PRODUCT

2.1 GENERAL

The element, Extruded polystyrene sheets POLYCASA® PS, is defined as a product used as picture frames, doors for shower cabins, construction glazing, etc.

2.2 PRODUCT DESCRIPTION

Extruded polystyrene sheets POLYCASA® PS (manufacturer: Polycasa, s.r.o., Obecnická 520, 261 01 Příbram, CZ) are produced from extruded granulated polystyrene.

Mass per surface area:

- sheet with thickness 2 mm: 2100 g.m⁻²;
- sheet with thickness 4,6 mm: 4830 g.m⁻².

More detailed information about product construction is shown in drawings.

3. TEST REPORTS IN SUPPORT OF CLASSIFICATION

3.1 TEST REPORTS

No.	Name of laboratory	Name of sponsor	Test report No.	Date of the test	Test method
[1]	FIRES, s.r.o., Batizovce, SK	Quinn Plastics Slovakia, s.r.o., SK	FIRES RF 025/05 CS	06. 07. 2005	EN ISO11925-2: 2002
[2]	FIRES, s.r.o., Batizovce, SK	Quinn Plastics Slovakia, s.r.o., SK	FIRES RF 027/05 CS	11. 05. 2005	EN ISO11925-2: 2002

[1], [2] Test specimens were conditioned according to EN 13238 before the reaction to fire test

[1] Test of extruded polystyrene sheets BARLO® PS with thickness 2 mm.

[2] Test of extruded polystyrene sheets BARLO® PS with thickness 4,6 mm.

NOTES: Sponsor changed name of product to **QUINN® PS** on 1st January 2006
 Sponsor changed his business name to **Polycasa Slovakia s.r.o.** in 2012
 Sponsor changed name of product to **POLYCASA® PS** on 10th October 2013

3.2 TEST RESULTS

Test report number and test method	Characteristic value	Number of tests	Results	
			Continuous parameter - mean (m)	Compliance with parameters
[1] EN ISO 11925-2 surface/edge of specimen* exposed to flame (exposure time 15 s)	$F_s \leq 150$ mm	12	(-)	compliant
flaming droplets/particles	ignition of the paper		(-)	non-compliant



Test report number and test method	Characteristic value	Number of tests	Results	
			Continuous parameter - mean (m)	Compliance with parameters
[2] EN ISO 11925-2 surface/edge of specimen* exposed to flame (exposure time 15 s)	$F_s \leq 150$ mm	12	(-)	compliant
flaming droplets/particles	ignition of the paper		(-)	non-compliant

* Specimens main surface and edge (bottom part of boards) were exposed to flame.

4. CLASSIFICATION AND FIELD OF APPLICATION

4.1 REFERENCE OF CLASSIFICATION

This classification has been carried out in accordance with clause 11.3 of EN 13501-1: 2018.

4.2 CLASSIFICATION

The product, Extruded polystyrene sheets POLYCASA® PS, in relation to its reaction to fire behaviour is classified:

E

The additional classification in relation to smoke production is:

-

The additional classification in relation to flaming droplets/particles is:

-

The format of the reaction to fire classification for construction products excluding floorings is:

Fire behaviour		Smoke production				Flaming droplets	
E	-	-	-	-	,	-	-

Reaction to fire classification: E

4.3 FIELD OF APPLICATION

This classification is valid for the following final use applications:

- i) picture frames, doors for shower cabins, construction glazing, etc.

This classification is also valid for the following product parameters:

Thickness	change in the thickness is allowed within the range from 2 mm to 4,6 mm and within the manufacturer tolerances;
Colour	colour of sheets is not limited;
Area weight	change in the area weight is allowed within the range from 2100 g.m ⁻² to 4900 g.m ⁻² and within the manufacturer tolerances;
Composition of product	composition of product shall not be changed;



5. LIMITATIONS

This classification document does not represent type approval or certification of the product.

The classification is valid provided that the product, field of application and standards and regulations are not changed.

Approved:

Ing. Štefan Rástocký
leader of the testing laboratory



Signed:

Ing. Samuel Skokan
technician of the testing laboratory