MPA NRW.
Materialprüfungsamt Nordrhein-Westfalen
PRÜFEN • ÜBERWACHEN • ZERTIFIZIEREN

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Report of the classification of the reaction to fire behaviour

No. 230010871-1

issued 19.01.2017

English version

Sponsor

POLYCASA GmbH
Gassnerallee 40

55120 Mainz
GERMANY

Order

Reaction to fire classification according to DIN EN 13501-1

Date of order:

06.12.2016

Name of the classified building product[1)]:

Compact sheets made of extruded acryl glass (PMMA) named

- „CRYLON Glossy Black“, thickness range 3 mm to 10mm
- „CRYLON “ and „CRYLON Opal“
- „CRYLON 1.5 mm“

[1)] The sponsor sent in the product with another name for the tests which forms the basis of the classification report. Information on this can be found in the files of the MPA NRW.

This report determines the classification of the above-mentioned building product in accordance with the method defined in DIN EN 13501-1 (German version EN 13501-1:2007+A1:2009).

This classification report consists of 6 pages.

1. Description of the building product

Compact sheets made of extruded acryl glass (PMMA) in the following product variants:

1.1 „CRYLON“ and „CRYLON Opal“

Colourless or white coloured sheets for the use in the building industry, advertising, as partition walls, etc. The pigmentation was made by using inorganic white pigments.

Thickness of the colourless sheets: 2 mm to 25 mm
Density of the colourless sheets: approx. 1190 kg/m³

Thickness of the coloured sheets: 2 mm to 6 mm
Density of the coloured sheets: approx. 1190 kg/m³

1.2 „CRYLON 1.5 mm“

Colourless sheets for the use in the building industry, advertising, as partition walls, etc.

Thickness: 1.5 mm
Density: approx. 1190 kg/m³

1.3 „CRYLON Glossy Black“

Black coloured sheets with a co-extruded, high-gloss finished special coating for the use in the building industry, advertising, as partition walls, etc.

Thickness: 3 mm to 10 mm
Density: approx. 1190 kg/m³

2. Test reports and test results, which form the basis for the classification

2.1 Test reports

2.1.1 for the product variants „CRYLON“, „CRYLON Opal“ and „CRYLON 1.5 mm“:

Name of the laboratory	Sponsor	Number of the test report	Test method
MPA NRW	POLYCASA GmbH Gassnerallee 40 55120 Mainz GERMANY	230009352-1 of 24.03.2014	**DIN EN ISO 11925-2**

2.1.2 for the product variant „CRYLON Glossy Black“

Name of the laboratory	Sponsor	Number of the test report	Test method
MPA NRW	POLYCASA GmbH Gassnerallee 40 55120 Mainz GERMANY	230009926-1 of 21.05.2015	**DIN EN ISO 11925-2**

2.2 Test results

2.2.1 for the product variant „CRYLON“

Test method	Number of tests	Parameter	Test results	
			Continuous parameter average values	Discrete parameter
DIN EN ISO 11925-2	**12 x K 12 x F**	**$F_S \leq 150$ mm Flaming droplets / particles**	**-- --**	**yes no**

F = Surface flame impingement K= Edge flame impingement

2.2.2 for the product variant „CRYLON Opal“

Test method	Number of tests	Parameter	Test results	
			Continuous parameter average values	Discrete parameter
DIN EN ISO 11925-2	24 x K 24 x F	$F_S \leq 150$ mm Flaming droplets / particles	-- --	yes no

F = Surface flame impingement K= Edge flame impingement

2.2.3 for the product variant „CRYLON 1.5 mm“

Test method	Number of tests	Parameter	Test results	
			Continuous parameter average values	Discrete parameter
DIN EN ISO 11925-2	6 x K 6 x F	$F_S \leq 150$ mm Flaming droplets / particles	-- --	yes yes

F = Surface flame impingement K= Edge flame impingement

2.2.4 for the product variant „CRYLON Glossy Black“

Test method	Number of tests	Parameter	Test results	
			Continuous parameter average values	Discrete parameter
DIN EN ISO 11925-2	18 x K 12 x F	$F_S \leq 150$ mm Flaming droplets / particles	-- --	yes no

F = Surface flame impingement K= Edge flame impingement

3. Classification and direct field of application

4.1 Reference

The classification was carried out in accordance with clauses 13 and 14.3 of the standard DIN EN 13501-1: 2010.

3.2 Classification

3.2.1 Classification of the product variants „CRYLON“ and „CRYLON Opal“

The classification assigned to the material with regard to its reaction to fire is: **E**

The additional classification with regard to smoke production is: **--**

The additional classification with regard to flaming droplets / particles is: **--**

This results in the following reaction to fire classification of the material:

Reaction to fire	Smoke production	Flaming droplets / particles
E	**--**	**--**

i.e. ***E***

3.2.2 Classification of product variant „CRYLON **1.5 mm**“

The classification assigned to the material with regard to its reaction to fire is: **E**

The additional classification with regard to smoke production is: **--**

The additional classification with regard to flaming droplets / particles is: **d2**

This results in the following reaction to fire classification of the material:

Reaction to fire	Smoke production	Flaming droplets / particles
E	**--**	**d2**

i.e. ***E - d2***

3.2.3 Classification of product variant „CRYLON **Glossy Black“**

The classification assigned to the material with regard to its reaction to fire is: **E**

The additional classification with regard to smoke production is: **--**

The additional classification with regard to flaming droplets / particles is: **--**

This results in the following reaction to fire classification of the material:

Reaction to fire	Smoke production	Flaming droplets / particles
E	**--**	**--**

i.e. ***E***

3.3 Field of application of the product

The classification is only valid for the product variants described in clauses 1.1, 1.2 and 1.3, especially concerning their thicknesses, and for densities of approx. 1190 kg/m³, each. The product must be arranged with a distance to the same or other products.

4. Restrictions

This classification report does not replace any type approval or certification of the product.

This classification report written in English language is issued additionally to the report written in German language with the same report number. In case of doubt, the German version is solely valid.

Erwitte, 19.01.2017
On behalf

Dipl.-Ing. Rademacher
Head of the testing body

Materialprüfungsamt MPA NRW 38 Nordrhein-Westfalen

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