

Report of the classification of the reaction to fire behaviour

No. 230010207-4

issued 27 December 2017

English version

Sponsor¹⁾

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Order

Reaction to fire classification according to DIN EN 13501-1

Date of order:

22 December 2017

Name of the classified building product:

Sunprotection films. For detailed product designations²⁾ see annex 1.

This report determines the classification of the above-mentioned building product in accordance with the method specified in DIN EN 13501-1 "Classification of building products and building types with regard to their reaction to fire – part 1: classification with results from tests with regard to the reaction to fire of building products; German version EN 13501-1:2007+A1:2009", Edition 2010.

¹⁾ The tests used as base for this classification report were ordered by another sponsor

²⁾ The tests used as base for this classification report were done with products provided for testing under different product designations.

1. Description of the building product

Self-adhesive films made of polyester with varying degrees of light transmission for flat glass.

Thickness range: 49 µm to 100 µm

Weight per unit area: approx. 90 g/m² to approx. 144 g/m²

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

2.1 Test reports

Name of the laboratory	Sponsor	Number of the test reports	Test method
MPA NRW	Information about the sponsor are kept in the files of MPA NRW	230010207-1 of 06.11.2015	DIN EN 13823
MPA NRW	Information about the sponsor are kept in the files of MPA NRW	230010207-2 of 06.11.2015	DIN EN ISO 11925-2

2.2 Test results

Test method	Number of tests	Parameter	Test results	
			Continuous parameter average values	Discrete parameter
DIN EN 13823	4	FIGRA _{0,2} (W/s)	0.0	--
		FIGRA _{0,4} (W/s)	0.0	--
		THR _{600s} (MJ)	0.5	--
		LFS < outer edge	--	yes
		SMOGRA (m ² /s)	0,0	--
		TSP _{600s} (m ²)	28.3	--
		Flaming droplets / particles (s)	0	--

Test method	Number of tests	Parameter	Test results	
			Continuous parameter average values	Discrete parameter
DIN EN ISO 11925-2	8 x K and 8 x F	F _s ≤ 150 mm	--	yes
		Flaming droplets / particles	--	no

Remark: K = Tested with flames exposed to the edge, F = tested with flames exposed to the surface

3. Classification and direct field of application

3.1 Reference

The classification was carried out in accordance with clauses 11 and 14.1 of the standard DIN EN 13501-1: 2010.

3.2 Classification

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

The additional classification with regard to smoke production is: **s1**

The additional classification with regard to flaming droplets / particles is: **d0**

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

Reaction to fire	Smoke production	Flaming droplets/particles
B	s1	d0

i.e. **B – s1, d0**

3.3 Field of application of the product

The classification is solely valid for the products described in clause 1, glued onto substrates of glass. Furthermore, the classification is only valid when the receipt of the products is identical to the products which were tested in the tests that form the basis of the classification.

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, 27 December 2017

On behalf

[Handwritten Signature]
 Dipl.-Ing. Rademacher

Head of testing body



Date of issue of this English version: 27 December 2017

The following products are covered by the classification specified in classification report no. 230010207-4 of 27 December 2017 due to their thickness and their weight per unit area as well as their composition.

- DR Grey 05 i
- DR Grey 15 i
- R Silver 20i
- R Silver 35i
- R Silver 50i
- SS Natural 45 i
- SS Natural 70 i
- DS Matte i
- DS UV Filter i
- R Silver 20X
- R Silver 35X
- R Silver 50X
- R Silver 20X Poly
- DR Grey07X
- DR Grey20X
- DR Grey35X
- DR Grey50X
- SS Blue 75X
- SS Natural 70X

Notice: The details to the thickness, to the weight per unit area and to the composition of the above-mentioned products have not been checked by the testing laboratory. The compliance with the specific details specified in clause 1 in the classification report is decisive for the classification.

Date of issue of this annex: 10 January 2019

This annex replaces the annex which was issued 27 December 2017