

# Report of the classification of the reaction to fire performance

**No. 230009397-3**

issued 06.06.2014

English version

## **Sponsor**

ORAFOL Europe GmbH  
Orafolstraße 2

16515 Oranienburg

## **Order**

Classification of the reaction to fire performance according to DIN EN 13501-1:2010-01

**Date of order:** 06.03.2014

## **Name of the classified product:**

Digital print foil "ORAJET 3551G arktikweiß (101)" printed with solvent ink respectively latex ink and laminated with "ORAGUARD 215 G"

This report gives the classification of the above-mentioned building product in accordance to the procedure given in DIN EN 13501-1.

## 1 Description of the building product

White, glossy polymer PVC foil, one-sided coated with a grey adhesive on basis of a polyacrylate; the foils will be printed with solvent based inks respectively latex inks by digital printing on the visible side. The printed foils will be finally affixed with a transparent, glossy protective laminate foil made of polymer PVC, which is one-sided coated with an adhesive on basis of a polyacrylate.

Thickness of the printed foil "ORAJET 3551G arktikweiß (101)": 0,096 mm ± 20 %

Thickness of the protective laminate foil "ORAGUARD 215 G": 0,099 mm ± 20 %

Thickness of the foil compound: 0,195 mm ± 20 %

Mass per unit area of the printed foil "ORAJET 3551G arktikweiß (101)": 128 g/m<sup>2</sup> ± 10 %

Mass per unit area of the protective laminate foil "ORAGUARD 215 G": 113 g/m<sup>2</sup> ± 10 %

## 2. Test reports and test results supporting the classification

### 2.1 Test reports

Name of the test laboratory	Sponsor	No. of the test report	Test procedure
MPA NRW	ORAFOL Europe GmbH	230009397-1 of 06.06.14 230009397-2 of 06.06.14	<b>DIN EN ISO 11925 – 2</b> <b>DIN EN 13823</b>

### 2.2 Test results

The following test results are the basis of the classification

Test method	Parameter	Number of tests performed	Test results	
			Average values of continuously parameter	Requirements of discrete parameter
DIN EN ISO 11925-2 30 s flaming time	Flamespread ≤150 mm	24	--	yes
	Burning droplets/particles			no
DIN EN 13823	FIGRA <sub>0,2</sub> in W/s	4	138	--
	FIGRA <sub>0,4</sub> in W/s		127	--
	THR <sub>600s</sub> in MJ		2,2	--
	LFS <sub>edge</sub>		--	< edge
	SMOGR <sub>A</sub> in m <sup>2</sup> /s <sup>2</sup>		14	--
	TSP <sub>600s</sub> in m <sup>2</sup>		58	--
	Duration of burning droplets/particles in s		0	--

### 3. Classification and direct field of application

#### 3.1 Reference

This classification was carried out in accordance to the clauses 11 and 14 of the standard DIN EN 13501-1:2010-01.

#### 3.2 Classification

The tested building product in relation to its reaction to fire behaviour is classified as: **C**

The additional classification in relation to smoke production is: **s2**

The additional classification in relation to flaming droplets/particles is: **d0**

The classification of the reaction to fire performance is therefore:

Fire behaviour	Smoke development	Flaming droplets
<b>C</b>	<b>s2</b>	<b>d0</b>

i. e. **C – s2,d0**

#### 3.3 Field of application of the product

The classification is valid solely for the product described in clause 1 for the application on substrates made of gypsum boards as well as on substrates of the Euroclass A1 or A2-s1, d0 with a density of  $\geq 525 \text{ kg/m}^3$  and a thickness of  $\geq 12 \text{ mm}$  which are used in practice.

### 4. Restrictions

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

### 5. Remark

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 valid solely.

Erwitte, 06.06.2014

On behalf



Dipl.-Ing. Rademacher  
 Head of notified testing body




Dipl.-Ing. Schreiner  
 Engineer in charge

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