

Report of the classification of the reaction to fire performance

No. 230011152-3

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English version

Sponsor

ORAFOL Europe GmbH
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Order

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

Date of order: 17.08.2017

Identification number of the notified testing institute: 0432

Name of the classified product:

With solvent inks printable, mat respectively satin-gloss respectively glossy PVC-self-adhesive films „ORAJET 3165“ and „ORAJET 3165RA“ together with the laminate film „ORAGUARD 215“

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, with solvent inks printable PVC films with the surface embossings mat, satin-gloss and glossy and a polyacrylate-based adhesive coating on one side

Thickness of the film without the self-adhesive coating: 0.1 mm, Colour of the adhesive: grey
 The self-adhesive film „ORAJET 3165RA“ is deliverable with the surface embossings mat and glossy, only. It differs to the self-adhesive film „ORAJET 3165“ by the cover-material for the adhesive coating, only. This should allow a bonding of large-size motives free of bubbles.

The colourless, transparent laminate film consists of PVC, too, with the surface embossings mat, satin-gloss and glossy and a polyacrylate-based adhesive coating on one side.

Thickness of the laminate film without the self-adhesive coating: 0.075 mm

Thickness of the white self-adhesive film: app. 0.1 mm

Thickness of the laminate film: app. 0.08 mm

Mass per unit area of the white self-adhesive film: app. 147 g/m²

Mass per unit area of the laminate film: app. 115 g/m²

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	230011152-1 of 24.01.18 230011152-2 of 24.01.18	DIN EN ISO 11925 – 2 DIN EN 13823

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	60	--	yes
	Burning droplets/particles			no
DIN EN 13823	FIGRA _{0,2} in W/s	7	255	--
	FIGRA _{0,4} in W/s		228	--
	THR _{600s} in MJ		1,7	--
	LFS _{edge}		--	< edge
	SMOGRA in m ² /s ²		33 ¹⁾	--
	TSP _{600s} in m ²		30 ¹⁾	--
	Duration of burning droplets/particles in s		0	--

1) The values for SMOGRA and TSP_{600s} were calculated by using the alternative calculation procedure according to DIN EN 13823 remark to section A.6.1.2.

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
C	s2	d0

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 metallic substrates of Euroclass A1 or A2-s1,d0 with a density of $\geq 5887 \text{ kg/m}^3$, a thickness of $\geq 0.6 \text{ mm}$ and a melting point of $\geq 1000 \text{ °C}$. The classification is also valid, if the films will be printed with solvent inks in different colours.

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, 12.04.2018

On behalf



Dipl.-Ing. Rademacher
 Head of notified testing body




Dipl.-Ing. Schreiner
 Engineer in charge

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