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Report of the classification of the reaction to fire performance

No. 230011151-3

issued 29.03.2018

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: 17.08.2017

Identification number of the notified testing institute: 0432

Name of the classified product:

With solvent-digital print-inks printable, mat respectively glossy, white PVC-self-adhesive foils „ORAJET 3164“, „ORAJET 3164X“ and „ORAJET 3164XRA“

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

This classification report consists of 3 pages.

1 Description of the building product

White, with solvent-digital print-inks in different colours printable soft-PVC foils in different gloss levels with a polyacrylate-based adhesive coating on one side

Thickness of the foils without the self-adhesive coating: 0,1 mm
Gloss level of the foils: mat respectively glossy
Colour of the adhesive on the foils „ORAJET 3164“: colourless, transparent
Colour of the adhesive on the foils „ORAJET 3164X“: grey
Colour of the adhesive on the foils „ORAJET 3164XRA”: grey

The self-adhesive coating of the foils „ORAJET 3164XRA” is provided with a special cover material to simplify the sticking without bubbles.

Mass per unit area of the self-adhesive foils: app. 154 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	230011151-1 of 29.03.18 230011151-2 of 29.03.18	**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 continously parameter	Requirements of diskrete parameter
DIN EN ISO 11925-2 30 s flaming time	**Flamespread ≤150 mm Burning droplets/particles**	**72**	**--**	**yes** **no**
DIN EN 13823	**$FIGRA_{0.2}$ in W/s**	**8**	**101**	**--**
	$FIGRA_{0.4}$ in W/s		**0**	**--**
	THR_{600s} in MJ		**0,8**	**--**
	LFS_{edge}		**--**	**< edge**
	SMOGRA in m²/s²		**13**	**--**
	TSP_{600s} in m²		**34**	**--**
	Duration of burning droplets/particles in s		**0**	**--**

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: **B**

The additional classification in relation to smoke production is: **s1**

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	**s1**	**d0**

i. e. ***B – s1,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 ≥ 5887 kg/m³, a thickness of ≥ 0,6 mm and a melting point of ≥ 1000 °C. The classification is also valid, if the foils will be printed with solvent-digital print-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, 29.03.2018
On behalf

Materialprüfungsamt MPA NRW 38

Dipl.-Ing. Schreiner
Assistant head of notified testing body

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