

# **Report of the classification of the reaction to fire behaviour**

**No. 230009991-3**

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**English version**

## **Sponsor**

3M Deutschland GmbH  
Customer Technical Center  
Carl-Schurz-Straße 1

41453 Neuss  
GERMANY

## **Order**

Reaction to fire classification according to DIN EN 13501-1

## **Date of order:**

24 March 2015

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

Self-adhesive print film named „Serie 3M™ Envision™ Print Film Serie 48-20 + 3M™ Envision™ Gloss Overlamine 8048G“

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. Description of the building product

White, self-adhesive plastic film with matt surface.

Material, from which the film is produced: PVC free polymer  
 Type of adhesive: acrylate adhesive

Thickness: approx. 0.22 mm  
 Total weight per unit area: approx. 237 g/m<sup>2</sup>

## 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 report	Test method
MPA NRW	3M Deutschland GmbH Customer Technical Center Carl-Schurz-Straße 1 41453 Neuss GERMANY	230009991-1 of 05.06.2015	DIN EN 13823
MPA NRW	3M Deutschland GmbH Customer Technical Center Carl-Schurz-Straße 1 41453 Neuss GERMANY	230009991-2 of 05.06.2015	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	3	FIGRA <sub>0,2</sub> (W/s)	25.7	--
		FIGRA <sub>0,4</sub> (W/s)	25.3	--
		THR <sub>600s</sub> (MJ)	1.7	--
		LFS < outer edge	--	yes
		SMOGRA (m <sup>2</sup> /s)	0.7	--
		TSP <sub>600s</sub> (m <sup>2</sup> )	33.0	--
		Flaming droplets/particles (s)	0	--

Test method	Number of tests	Parameter	Test results	
			Continuous parameter average values	Discrete parameter
DIN EN ISO 11925-2	6 x K and 6 x F	F <sub>s</sub> ≤ 150 mm Flaming droplets / particles	-- --	Yes 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 the 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>B</b>	<b>s1</b>	<b>d0</b>

i.e. **B – s1, d0**

#### 3.3 Field of application of the product



The classification is solely valid for the product described in clause 1 glued onto substrates made of glass.

### 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, 5 June 2015

Dipl.-Ing. Rademacher  
 Head of the testing body

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