

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

**No. 230010384-3**

**issued 22 March 2016**

**English version**

## **Sponsor**

3M Deutschland GmbH  
Carl-Schurz-Straße 1

41453 Neuss  
GERMANY

## **Order**

Reaction to fire classification according to DIN EN 13501-1

## **Date of order:**

18 December 2015

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

Self-adhesive film designated as „3M Scotchcal™ Graphic Film 5525-3xx“

This report determines the classification of the above-mentioned building product in accordance with the procedure given in DIN EN 13501-1 „Fire classification of construction products and building elements – Part 1: Classification using data from reaction to fire tests; German version EN 13501-1:2007+A1:2009“, edition 2010.

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This classification report consists of 4 pages.

## 1. Description of the building product

Self-adhesive films.

Material from which the films are manufactured:

Thickness of the film (without adhesive):  $85 \mu\text{m} \pm 7 \mu\text{m}$

Weight per unit area of the adhesive:  $18 \text{ g/m}^2 \pm 2 \text{ g/m}^2$

Total weight per unit area: approx.  $122 \text{ g/m}^2$

Total thickness: approx. 0.09 mm

Colour: clear-transparent with slight cloudiness.

## 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 Carl-Schurz-Straße 1 41453 Neuss GERMANY	230010384-1 dated 22.03.2016	<b>DIN EN 13823</b>
MPA NRW	3M Deutschland GmbH Carl-Schurz-Straße 1 41453 Neuss GERMANY	230010384-2 dated 22.03.2016	<b>DIN EN ISO 11925-2</b>

## 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)	3.3	--
		FIGRA <sub>0,4</sub> (W/s)	3.3	--
		THR <sub>600s</sub> (MJ)	0.8	--
		LFS < outer edge	--	yes
		SMOGRA (m <sup>2</sup> /s)	0.0	--
		TSP <sub>600s</sub> (m <sup>2</sup> )	32.3	--
		Flaming droplets / particles (s)	0	--

Remark: More than 3 tests have been performed. The above-mentioned results relate to the test of one product variant. The test procedure is described in the test report mentioned above.

Test method	Number of tests	Parameter	Test results	
			Continuous parameter Average values	Discrete parameter
DIN EN ISO 11925-2	12 x K and 12 x F	F <sub>s</sub> ≤ 150 mm Flaming droplets / particles	-- --	yes no

Remark: K = Tested with flame exposure to the edge, F = Tested with flame exposure to the surface

### 3. Classification and direct field of application

#### 3.1 Reference

The classification was carried out in accordance with clauses 12. and 14.2 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, 22 March 2016




Dipl.-Ing. Rademacher  
 Head of the testing body

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