

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

**No. 230008205-4**

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English version

## **Sponsor**

PALZIV Ltd.  
Kibbutz Ein Hanatziv  
Emek Beit Shean  
10805 Ein Hanatziv  
Israel

## **Order**

Classification of the reaction to fire performance according to DIN EN 13501-1:2007+A1:2009

## **Date of order:**

10<sup>th</sup> April 2011

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

Polyethylene foam sheets „Palziv GA25FHZ“ with and without selfsealing coating

## **Notified Body: 0432**

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

Polyethylene foam sheets with flame retardant equipment with and without an acrylic self adhesive coating

Thickness of the sheets with self adhesive coating: 3 mm  $\pm$  10 %

Thickness of the sheets without self adhesive coating: 6 mm – 12 mm ( $\pm$  10 %)

Weight per unit area of the polyethylene foam sheets with self adhesive coating: 163 g/m<sup>2</sup>  $\pm$  10 %

Density of the polyethylene foam: 25 kg/m<sup>3</sup>  $\pm$  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	PALZIV Ltd.	230008205-2 230008205-3	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	Average values of continuously parameter	Requirements of discrete parameter
DIN EN ISO 11925-2 30 s flaming time	Flamespread $\leq$ 150 mm Burning droplets/particles	24	--	yes no
DIN EN 13823	FIGRA <sub>0,2</sub> in W/s	5	96 <sup>1)</sup>	--
	FIGRA <sub>0,4</sub> in W/s		85 <sup>1)</sup>	--
	THR <sub>600s</sub> in MJ		1,1 <sup>1)</sup>	--
	LFS <sub>edge</sub>		--	< edge
	SMOGR <sub>A</sub> in m <sup>2</sup> /s <sup>2</sup>		1118 <sup>2)</sup>	--
	TSP <sub>600s</sub> in m <sup>2</sup>		36 <sup>2)</sup>	--
	Duration of burning droplets/particles in s		0	--

Notes: 1) Mean value of three tests on the 3 mm thick sheet

2) Maximum value of the test on the 12 mm thick sheet

### 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.

#### 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: **s3**

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>B</b>	<b>s3</b>	<b>d0</b>

i. e. **B – s3,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 thickness of  $\geq 0,8$  mm, a density of  $\geq 1990$  kg/m<sup>3</sup> and a melting point of  $\geq 500$  °C.

### 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, 24<sup>th</sup> February 2012

Head of notified testing body

Dipl.-Ing. Rademacher



The engineer in charge

Dipl.-Ing. Schreiner

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