

## CLASSIFICATION OF REACTION TO FIRE IN ACCORDANCE WITH EN 13501-1

**No. of classification report::**

K-3586/339/09-MPA BS

**Sponsor:**

ODE K-Flex YALITIM MALZEMELERI  
SAN. VE TIC. LTD. STI.  
Tavsanlıtepe Mevkii, Yulaflı Koyu  
59850 Corlu / Tekirdag  
Turkey

**Classified product:**

FEF-product according to EN 14304  
Product name: ODE K-Flex sheet

**Base of classification:**

DIN EN 13501-1: 2007

**Prepared by::**

MPA Braunschweig  
Germany

**Notified Body No.:**

0761-CPD

**Issue date:**

15.01.2010

**Limitations:**

The classification document does not represent type permission or the certification of the product.



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## 1 Introduction

This classification defines the classification assigned to the product “ODE R-Flex sheet” in accordance with the procedures given in DIN EN 13501-1 : 2007.

## 2 Details of the building product

### 2.1 Field of application

The classification in this report is valid for the classified product for the following field of application:

The FEF-product “ODE R-Flex sheet” is a flexible, closed-cell rubber foam and is used for the thermal insulating of surfaces for saving energy and preventing the accumulation of condensed water in air conditioning and cooling systems.

### 2.2 Description of the building product

The construction product is fully described in the test reports in support of this classification listed in clause 3.1.

## 3 Test reports and test results in support of this classification

### 3.1 Test reports

Name of testing laboratory	Sponsor	No of test report	Test method
MPA Braunschweig	ODE YALITIM SANAYI ve TICARET A.S.	3586/339/09-a	DIN EN 13823
MPA Braunschweig	ODE YALITIM SANAYI ve TICARET A.S.	3586/339/09-b	DIN EN ISO 11925-2

### 3.2 Test results of the product "ODE R-Flex sheet"(Thickness: 19 mm)

Test method	Parameter	Number of tests	Test results	
			Continuous Parameters (Mean value)	Compliance Parameters
DIN EN 13823	FIGRA <sub>0,2 MJ</sub>	3	114	-
	FIGRA <sub>0,4 MJ</sub>	3	47	-
	THR <sub>600s</sub> (MJ)	3	1.7	-
	LFS < Edge	3	-	yes
	SMOGRA (m <sup>2</sup> /s <sup>2</sup> )	3	1181	-
	TSP <sub>600s</sub> (m <sup>2</sup> )	3	283	-
	Burning droplets/ particles	3	-	no
DIN EN ISO 11925-2 Edge flame attack 30 s Flaming	F <sub>s</sub> ≤150 mm	6	-	yes
Burning droplets/ particles	Ignition of filter paper	6	-	no
DIN EN ISO 11925-2 Surface flame attack 30 s Flaming	F <sub>s</sub> ≤150 mm	6	-	yes
Burning droplets/ particles	Ignition of filter paper	6	-	no

## 4 Classification and direct field of application

### 4.1 Reference of classification

This classification has been carried out in accordance with clause 11 of DIN EN 13501-1 : 2007.

### 4.2 Classification

The following classes concerning the behaviour in case of fire are assigned to the product:

ODE R-Flex sheet	<b>B</b>
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The additional classification in relation to smoke production is:

ODE R-Flex sheet	<b>s3</b>
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The additional classification in relation with burning droplets/particles is:

ODE R-Flex sheet	<b>d0</b>
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The classification's format of the behaviour in case of fire for building products with the exception of floor mats for the above mentioned products in connection with the examined substrate is:

Product	Fire performance	Smoke production	Burning droplets
ODE R-Flex sheet	<b>B</b>	<b>s3</b>	<b>d0</b>

The classification of the FEF-product "ODE R-Flex sheet" with thickness 19 mm is in accordance with DIN EN 13501-1 : 2007 as following:

<b>ODE R-Flex sheet:</b>	<b>B-s3,d0</b>
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#### 4.3 Product parameters and field of application

The classification in clause 4.2 only applies to the products described in clause 2 and is only valid for the following product parameters and applications:

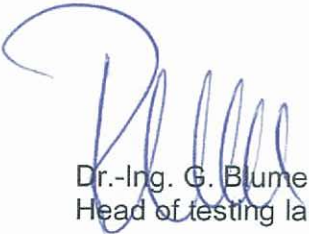
The product "ODE R-Flex sheet" is used for the thermal insulating of surfaces (building equipment and industrial installations):

Component	Parameter	Validity range of classification
Flexible elastomeric foam (FEF)	Density	45 g/m <sup>3</sup> ± 5 g/m <sup>2</sup>
	Thickness	19 mm ± 2 mm
Substrate	Material	Steel
Adhesive	Type	Cyanoacrylate (50 g/m <sup>2</sup> )


#### 5 Limitations

5.1 Used with other substrates, undergrounds, with additional other coatings or different weight per unit area ranges than given in clause 4.3 its performance is likely to be influenced that negative, that the given classification in clause 4.2 is no longer valid. Fire performance with other substrates or with additional coatings is to be tested and classified separately.

5.2 This classification report does not represent type approval or certification of the product.

  
Dr.-Ing. G. Blume  
Head of testing laboratory



i.A.   
Dipl.-Phys. H. J. Herbst  
Official in charge

Braunschweig, January 15<sup>th</sup> 2010