

Classification of Reaction to Fire in Accordance with EN 13501-1

No. of classification report:

K-3266/898/10-MPA BS

Sponsor:

ODE YALITIM SANAYI ve TICARET A.S.
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Turkey

Subject of classification:

Factory made flexible elastomeric foam (FEF)
products according to EN 14304
Product name: ODE R-Flex Tube

Base of classification:

DIN EN 13501-1 : 2010

Prepared by::

MPA Braunschweig
Germany

Notified Body No.:

0761-CPD

Date of issue:

26/04/2010

Limitations:

This document does not represent type approval or certification of the product.



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1 General Information

This classification report defines the classification assigned to the product “ODE R-Flex Tube” of the company “ODE K-flex” in accordance with the procedures given in DIN EN 13501-1 : 2010.

2 Details of classified product

2.1 End-use application

The product “ODE R-Flex Tube” is defined as a flexible elastomer foam (FEF) according to EN 13304 : 2010.

2.2 Description of the products

The products are 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 laboratory	Name of sponsor / manufacturer	Test report number	Test method
MPA Braunschweig	ODE K-Flex Turkey	3266/898/10-a from 28.04.2010	DIN EN 13823
MPA Braunschweig	ODE K-Flex Turkey	3266/898/10-a from 28.04.2010	DIN EN ISO 11925-2

3.2 Test results for the product “ODE R-Flex Tube” (Nominal thickness: 25 mm)

Test method	Parameter	Number of tests	Test results	
			Continuous Parameters (mean values)	Compliance Parameters
EN 13823	FIGRA _{0,2 MJ}	3	97	-
	FIGRA _{0,4 MJ}	3	76	-
	THR _{600s} (MJ)	3	4.9	-
	LFS < Edge	3	--	yes
	SMOGRA (m ² /s ²)	3	835	-
	TSP _{600s} (m ²)	3	942	-
	Flaming droplets / particles	3	-	no
EN ISO 11925-2 Surface flame attack 30 s	Fs ≤ 150 mm	6	-	compliant
	Ignition of filter paper	6	-	compliant
Edge flame attack 30 s	Fs ≤ 150 mm	6	-	compliant
	Ignition of filter paper	6	-	compliant

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 : 2010.

4.2 Classification

The products in relation to its fire behaviour is classified:

ODE R-Flex Tube	B_L
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The additional classification in relation to smoke production is:

ODE R-Flex Tube	s3
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The additional classification in relation with burning droplets/particles is:

ODE R-Flex Tube	d0
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The format of the reaction to fire classification for construction products is:

Fire behaviour	Smoke production	Flaming droplets
B_L	-	s3
	,	d0

The classification in accordance with table 1 of DIN EN 13501-1:2010 is:

Classification of reaction - fire : B_L-s3,d0

4.3 End-use application and product parameter

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

End-use application:


- Elastomeric insulation of metal pipes and water ducts in civil and industrial facilities or plants (air-conditioning and heating applications)

Product parameter	Validity range of classification
Type	Flexible elastomer foam (FEF)
Density	50 kg/m ³ ± 5 kg/m ³
Thickness	25 mm ± 1 mm
Inner diameter	23 mm ± 1 mm
Applying on substrate	Metal tubes with melting point ≥ 1000 °C


5 Limitations

5.1 Used with other substrates or with additional other coatings than given in clause 4.3 the performance is likely to be influenced so 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 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, 28 March 2010