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Reference
P401098A

Reaction to fire classification report of product DIS 6

Introduction

This classification report defines the classification assigned to the product called "DIS 6" in accordance with the procedure given in EN 13501-1.

Nature and end use application

The product "DIS 6" is defined as a insulation material. Its classification is valid for the end use application as thermal insulation for buildings.

Description

According to the client:
Insulation material called "DIS 6" consisting of a double core of Polyethylene bubbles sandwiched between 2 layers of aluminium foil called "rFOIL™" reflective sheets. The nominal total thickness of the product is 7.9 mm and the nominal thickness of the "rFOIL™" is 0.063 mm.

Test report

This classification is based on test report listed below:

Name of laboratory	Name of sponsor	Test report ref no	Test method
SP	Dansk Byggnings Import A/S	P401098	EN 13823 EN ISO 11925-2

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Test results

Test method	Parameter	Number of tests	Results	
			Continuous parameter mean (m)	Compliance parameter
EN ISO 11925-2		6		
Edge flame attack				
30 s exposure	$F_s \leq 150 \text{ mm}$		(-)	Yes
Flaming droplets/particles	Ignition of filter paper		(-)	No ignition of filter paper
EN ISO 11925-2		6		
Surface flame attack				
30 s exposure	$F_s \leq 150 \text{ mm}$		(-)	Yes
Flaming droplets/particles	Ignition of filter paper		(-)	No ignition of filter paper
EN 13823		3		
	$FIGRA_{0,4MJ} \text{ (W/s)}$		247	(-)
	$LFS < \text{edge}$		(-)	Yes
	$THR_{600s} \text{ (MJ)}$		2.8	(-)
	$SMOGRA \text{ (m}^2/\text{s}^2\text{)}$		4	(-)
	$TSP_{600s} \text{ (m}^2\text{)}$		28	(-)
	Flaming droplets/particles		(-)	No flaming droplets/particles

(-) : not applicable

Reference and direct field of application

This classification has been carried out in accordance with clause 8.2, 10.5, 10.9 and 10.10 of EN 13501-1:2002.

Classification

The product called "DIS 6" in relation to its reaction to fire behaviour is classified:

The additional classification in relation to smoke production is:

The additional classification in relation to flaming particles/droplets is:

C
s1
d0

The final classification is C-s1,d0

**Field of application:**

This classification is valid for the following end use conditions:

Substrates

- Any end use substrate of Euroclasses A1 or A2 at least 6 mm thick, having a density $\geq 830 \text{ kg/m}^3$.

Mounting

- Mechanically fixed directly attached to the substrate.

This classification is valid for the following product parameters:

- Nominal thickness 7.9 mm.

The sample was delivered by the client. SP Fire Technology was not involved in the sampling procedure.

Restrictions

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Warning

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

SP Swedish National Testing and Research Institute
Fire Technology - Materials Reaction to Fire

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