

## Classification of reaction to fire in accordance with EN 13501-1

### 1 Introduction

This classification report defines the classification assigned to “Airfelt HP” in accordance with the procedure given in EN 13501-1:2018.

### 2 Details of classified product

#### 2.1 General

The product “Airfelt HP” is defined as a sound-absorbing polyester sheet.

#### 2.2 Product description

According to the client:

Product called “Airfelt HP”, consisting of a sound-absorbing polyester sheet. The product has a nominal density of 155.55 kg/m<sup>3</sup>, an area weight of 1.4 kg/m<sup>2</sup> and a nominal thickness of 9.25 mm. The product has the colour white.

The product consists of the following:

	Composition/content
Layer 1	Polyethylene Terephthalate 95-100 %
Layer 2	2,2'-(1,2-Ethenediyl-di-4,1-phenylene)bisbenzoaxole 1-4 %
Layer 3	Titanium-dioxide < 0.4 %
Layer 4	Organic content < 0.3 %

### 3 Reports and results in support of this classification

#### 3.1 Test reports

Table 1 Test reports

Name of laboratory	Name of sponsor	Test report reference no	Accredited test methods and date
RISE	CE Produkter AB	O100741-1181989	EN 13823:2020+A1:2022 and EN ISO 11925-2:2020

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Confidentiality level  
C3 - Sensitive

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### 3.2 Test results

Table 2 Test results showing the worst case as found in the test program performed.

Test method	Parameter	Number of tests	Results	
			Continuous parameter mean (m)	Compliance with parameters
EN ISO 11925-2		12		
Edge/Surface flame attack*				
30 s exposure	$F_s \leq 150 \text{ mm}$		(-)	Compliant
Flaming droplets/particles	Ignition of filter paper		(-)	No ignition of filter paper
EN 13823		3		
	$FIGRA_{0,2\text{MJ}}$ (W/s)		0.0	Compliant
	$FIGRA_{0,4\text{MJ}}$ (W/s)		0.0	Compliant
	$LFS < \text{edge}$		(-)	Compliant
	$THR_{600\text{s}}$ (MJ)		0.2	Compliant
	$SMOGRA$ , (m <sup>2</sup> /s <sup>2</sup> )		0	Compliant
	$TSP_{600\text{s}}$ (m <sup>2</sup> )		8.1	Compliant
	Flaming droplets/particles		(-)	No flaming droplets/particles

\* : as required to the end use application of the product

(-) : not applicable

## 4 Classification and field of application

### 4.1 Reference of classification

This classification has been carried out in accordance with clause 11 and 15 of EN 13501-1:2018.

### 4.2 Classification

The product called “Airfelt HP” in relation to its reaction to fire behaviour is classified:

B

The additional classification in relation to smoke production is:

s1

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

d0

The format of the reaction to fire classification for construction products excluding floorings and linear pipe thermal insulation product is:

Fire Behaviour		Smoke Production			Flaming Droplets	
B	-	s	1,	,	d	0,

**Reaction to fire classification:** *B – s1, d0*

#### 4.3 Field of application:

This classification is valid for the following product parameters:

Product description, as specified in 2.2 in this report

Nominal thickness: 9.25 mm.

Nominal area weight: 1.4 kg/m<sup>2</sup>

Nominal density: 155.55 kg/m<sup>3</sup>

This classification is valid for the following end use conditions:

Mounting

- Free standing with an air gap  $\geq 80$  mm.

The sample was delivered by the client. RISE, Fire And Safety was not involved in the sampling procedure.

## 5 Limitations

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

### RISE Research Institutes of Sweden AB Fire and safety - Reaction to Fire Medium Scale Lab

Performed by



Susanne Blomqvist

Examined by



Anna Bergstrand

# Verifikat

Transaktion 09222115557491451144

## Dokument

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