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Reaction to fire classification report

1 Introduction

This classification report defines the classification assigned to the product B81xx in accordance with the procedure given in EN 13501-1:2007.

2 Details of classified product

2.1 General

The product "B81xx" is defined as a PVC-coated polyester fabric. Its classification is valid for the following end use application:

Free hanging surface lining for construction purposes.

2.2 Product description

The product "B81xx" is fully described below:

According to the client: PVC-coated polyester fabric for textile architecture. Nominal thickness : 0.50 ± 0.05 mm, nominal weight per unit area: 600 ± 50 g/m², various colours.

3 Test reports

3.1 Test reports

This classification is based on test reports listed below:

Name of laboratory	Name of sponsor	Test report ref no	Accredited test method
SP	Sioen Industries	PX03646	EN 13823
SP	Sioen Industries	PX03646A	EN ISO 11925-2

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3.2 Test results

Test method	Parameter	Number of tests	Results	
			Continuous parameter mean (m)	Compliance with parameters
EN ISO 11925-2 Edge flame attack 30 s exposure	$F_s \leq 150$ mm	6	(-)	Compliant
Flaming droplets/particles	Ignition of filter paper		(-)	No ignition of filter paper
EN ISO 11925-2 Surface flame attack 30 s exposure	$F_s \leq 150$ mm	6	(-)	Compliant
Flaming droplets/particles	Ignition of filter paper		(-)	No ignition of filter paper
EN 13823		3		
	$FIGRA_{0,2MJ}$ (W/s)		0	Compliant
	$FIGRA_{0,4MJ}$ (W/s)		0	Compliant
	$LFS < \text{edge}$		(-)	Compliant
	THR_{600s} , (MJ)		0.3	Compliant
	$SMOGRA$, (m^2/s^2)		87	Compliant
	TSP_{600s} , (m^2)		79	Compliant
	Flaming droplets/particles		(-)	No flaming droplets/particles

(-) : not applicable

4 Classification and field of application

4.1 Reference and direct field of application

This classification has been carried out in accordance with clause 11 and 15 of EN 13501-1:2007.

4.2 Classification

The product called “B81xx” in relation to its reaction to fire behaviour is classified:

B

The additional classification in relation to smoke production is:

s2

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	2	,	d	0

Reaction to fire classification: *B-s2, d0*

4.3 Field of application:

This classification is valid for the following product parameters:

Nominal thickness: 0.50 ± 0.05 mm.

Nominal weight per unit area: 600 ± 50 g/m²

This classification is valid for the following end use conditions:

- Mounted free hanging.

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

5 Limitations

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

SP Technical Research Institute of Sweden
Fire Technology - Fire Dynamics



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