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Indicative test report
No. 191149

issued 19.12.2019

Applicant: Spandex AG
Oberglatterstrasse 13

8153 Rümlang
Schweiz

Date of order: **12.05.2015**
Date of sampling: **no official taking out of the sample from a representative of the Warringtonfire Frankfurt GmbH**
Date of arrival: **18.05.2015**
Date of test: **21.05.2015**
Test number: **2015-1525**

Order

Testing of the flammability (building class B1) according to DIN 4102-1 (May 1998)

Description / designation of the test object

Sample material designated as: „IP 2118 PVC Banner“

Description of the relevant test procedure

DIN 4102 part 1 (May 1998)

DAkkS Deutsche Akkreditierungsstelle D-PL-18354-01-00

1. Description of the test material

1.1 Details of the customer:

Sample material designated as: „IP 2118 PVC Banner“

Product description:

Intended end use of the product: Banner applications in various areas

1.2 By Warringtonfire Frankfurt GmbH determined values:

Material:	Coated material
Colour:	0,33 mm
Thickness:	0,18 mm
Square weight:	454 g/m²

Testing after clima storage at 23° C and 50 % rel. hum. L. moisture

2. Test results

2.1 "Brandschacht" test according to DIN 4102-1

Specimen A: Sample in direction of production

Test results of the "Brandschacht" tests part 1						
line no.		measurements test sample				
			A	B	C	D
1	sample arrangement according to DIN 4102 Part 15, section 5.4 Table No. 1		1			
2	flame height max. over lower sample edge	Cm	60			
	time [1)]	min : s	0:42			
3	ascertainments on the front side Flaming/glowing time [1)]	min : s	0:06			
4	melting / burning through time [1)]	min : s	0:19			
5	ascertainments on the back side Flaming/glowing time [1)]	min : s	no			
6	discolouring time [1)]	min : s	no			
7	burning droplets begin [1)]	min : s	no			
8	extent occasional dripping of material		no			
9	constant dripping of material					
10	separating from burning sample parts begin [1)]	min : s	yes			
11	occasional separating parts					
12	constant separating parts					
13	duration of burning on the sieve tray (max.)	min : s	no			
14	influence on the burner flame by dripping of / separating material time [1)]	min : s	no			
15	earlier end of test end of the fire scenario on the sample [1)]	min : s	no			
16	time of a possible resulted test stop [1)]	min : s				

[1)] time from start of test

Test results of the “Brandschacht” tests part 2						
line no.			Measurements test sample			
			A	B	C	D
	flaming after end of test		no			
17	duration	min : s	no			
18	number of sample		no			
19	front side of sample		no			
20	backside of sample		no			
21	flame length	cm	--/--			
	glowing after end of test		--/--			
22	duration	min . s	no			
23	number of sample		no			
	place of occurrence		no			
24	lower sample part		no			
25	upper sample part		no			
26	front side of sample		no			
27	backside of sample		no			
	smoke density					
28	< 400 % x min		65			
29	> 440 % x min		--/--			
30	diagram in annex no.		1			
	residual length					
31	single results	cm	58 / 63 52 / 56			
32	average of the single results	cm	57			
33	foto of the sample on page		5			
	smoke temperature					
34	max. of the average results	°C	119			
35	time [1)]	min : s	0:20			
36	diagram in annex no.		1			

[1)] time from start of test

Remarks: none

2.2 Appearance of the specimen after the test:

Sample A

3. Indicative Assessment

The determined results showed that the material is able to fulfill the requirements for the B1 classification according to DIN 4102-1 (May 1998).

4. Special note

The materials were not tested after an outside storage.

In combination with other materials (for example coatings, deposits) the burning behaviour could be influenced unfavourable so that the classification above is not valid any longer. According to DIN 4102-1 the burning behaviour in combination with other materials has to be tested separately.

Frankfurt, the 19.12.2019

H. Anders
Tester in charge

M. Ronzheimer
Senior Test Officer

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Akkreditierungsstelle
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Annex 1 to the test report No. 191149 issued 19.12.2019

Sample A: