

Indicative test report

No. 2019-1492

issued 14.05.2019

Applicant:

Spandex AG
Aegertweg 4

CH – 8305 Dietlikon
Schweiz

Date of order:

12.04.2019

Date of sampling:

**no official taking out of the sample from a
representative of the Warringtonfire Frankfurt GmbH**

Date of arrival:

03.05.2019

Date of test:

08.05.2019

Order

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

Description / designation of the test object

Product name: IP 2129 Frontlit Banner

Description of the relevant test procedure

DIN 4102 part 1 (May 1998)



1. Description of the test material

1.1 Details of the customer:

Product name: IP 2129 Frontlit Banner

Product description:

Tradename: Frontlit Banner
Sample material: Banner
Material type: Banner
Production technique: N/A
Total Thickness: 410 μ
Area weight: 450 g/m²
Colour: White
Fire protecting agent: N/A
Manufacturer: N/A
Fire protecting agent: N/A
Contents fire protecting agent: N/A

Intended end use of the product: Banner application

1.2 By Warringtonfire Frankfurt GmbH determined values:

Foil (IP 2129)

colour: white
thickness: 0,39 mm
square weight: 455 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	<u>sample arrangement according to DIN 4102 Part 15, section 5.4 Table No. 1</u>		1			
2	<u>flame height max. over lower sample edge</u> time ¹⁾	Cm	40			
		min : s	00:18			
3	<u>ascertainties on the front side</u> Flaming/glowing time ¹⁾	min : s	00:06			
4	<u>melting / burning through</u> time ¹⁾	min : s	00:09			
5	<u>ascertainties on the back side</u> Flaming/glowing time ¹⁾ discolouring time ¹⁾	min : s	no			
6		min : s	no			
7	<u>burning droplets</u> begin ¹⁾ extent occasional dripping of material constant dripping of material	min : s	no			
8			no			
9			no			
10	<u>separating from burning sample parts</u> begin ¹⁾ occasional separating parts constant separating parts	min : s	no			
11			no			
12			no			
13	<u>duration of burning on the sieve tray (max.)</u>	min : s	no			
14	<u>influence on the burner flame by dripping of / separating material</u> time ¹⁾	min : s	no			
15	<u>earlier end of test</u> end of the fire scenario on the sample ¹⁾ time of a possible resulted test stop ¹⁾	min : s	no			
16		min : s	no			

¹⁾ time from start of test

Test results of the "Brandschacht" tests part 2						
line no.		Measurements test sample				
		A	B	C	D	
17	<u>flaming after end of test</u> duration	min : s	no			
18	number of sample		no			
19	front side of sample		no			
20	backside of sample		no			
21	flame length	cm	--/--			
22	<u>glowing after end of test</u> duration	min . s	--/--			
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			
28	<u>smoke density</u> < 400 % x min		33			
29	> 440 % x min		--/--			
30	<u>diagram in annex no.</u>		1			
31	<u>residual length</u> single results	cm	66 / 69 69 / 66			
32	average of the single results	cm	67			
33	foto of the sample on page		5			
34	<u>smoke temperature</u> max. of the average results	°C	109			
35	time ¹⁾	min : s	08:46			
36	<u>diagram in annex no.</u>		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 14.05.2019

i.V. 

H. Anders
Tester in charge



P. Scheinkönig
Prüfstellenleiter Bau PVO



The results of the tests relate only to the behaviour of the test sample which is designated on the top.
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This test report contains 6 pages and 1 annex.

Annex 1 to the test report No. 2019-1492 issued 14.05.2019

Sample A:

