



Testing. Advising. Assuring.

Indicative test report

No. 2018-1340

issued 09.05.2018

Applicant: Spandex AG
Aegertweg 4
8305 Dietlikon
Schweiz

Date of order: 18.03.2018
Date of sampling: no official taking out of the sample from
a representative of the Exova
Warringtonfire, Frankfurt
Date of arrival: 04.04.2018
Date of test: 08.05.2018

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 2578PA

Description of the relevant test procedure

DIN 4102 part 1 (May 1998)



1. Description of the test material

1.1 Details of the customer:

Sample material designated as: IP 2578PA

Product description: none

Intended end use of product: Self-adhesive films application

1.2 By Exova Warringtonfire, Frankfurt determined values:

Foil glued to 3 mm thick aluminum sheet

Colour: white

Thickness: 0,09 mm

Square weight: 96 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>no. test arrangement according to DIN 4102 part 16, chapter 7.17.1 a)</u>		2			
2	<u>flame height max. over lower sample edge</u> time ¹⁾	cm	50			
		min : s	02:11			
3	<u>ascertainties on the front side</u> Flaming/glowing time ¹⁾	min : s	01:42			
4	<u>melting / burning through</u> time ¹⁾	min : s	no			
5	<u>ascertainties on the back side</u> Flaming/glowing time ¹⁾	min : s	not occured			
		6	<u>discolouring</u> time ¹⁾	min : s	not occured	
7	<u>burning droplets</u> begin ¹⁾ extent	min : s	not occured			
		8	occasional dripping of material			
		9	constant dripping of material			
10	<u>separating from burning sample parts</u> begin ¹⁾	min : s	no			
		11	occasional separating parts			
		12	constant separating parts			
13	duration of burning on the sieve tray (max.)	min : s	not occured			
14	influence on the burner flame by dripping of / separating material time ¹⁾	min : s	no			
15	<u>earlier end of test</u> end of the fire scenario on the sample ¹⁾	min : s	not occured			
		16	time of a possible resulted test stop ¹⁾	min : s	not occured	

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	--/--			
18	number of sample		--/--			
19	front side of sample		--/--			
20	backside of sample		--/--			
21	flame length	cm	--/--			
22	<u>glowing after end of test</u> duration	min . s	not occured			
23	number of sample		--/--			
	place of occurrence		--/--			
24	lower sample part		--/--			
25	upper sample part		--/--			
26	front side of sample		--/--			
27	backside of sample		--/--			
28	<u>smoke density</u> < 400 % x min		2			
29	> 440 % x min		--/--			
30	diagram in annex no.		1			
31	<u>residual length</u> single results	cm	45 / 46 46 / 46			
32	average of the single results	cm	46			
33	foto of the sample on page		5			
34	<u>smoke temperature</u> max. of the average results	°C	120			
35	time ¹⁾	min : s	9:12			
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 fire test result is only valid for the materials described in chapter 1, tested in free hanging configuration.

The distance to other flat material must be more than ≥ 40 mm.

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 09.05.2018

A handwritten signature in blue ink that reads "Anders".

H. Anders
Verantwortlicher Prüfer

A handwritten signature in blue ink that reads "Scheinkönig".

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 is a translation of the German version 2018-1340 (issued 09.05.2018). In case of doubt only the German version is valid

This test report contains 6 pages and 1 annex.

Sample A:

