

Test laboratory for the fire behavior of building materials, Dipl.-Ing. (FH) Andreas Hoch  
Testing, supervising and certifying body, authorized by the building supervision authority

# TEST REPORT PZ-Hoch-200517

for the proof of Fire behavior according to DIN 4102, part 1

Translation of the German test report – no guarantee for translation of technical terms

<b>representative</b>	<b>CONTINENTAL GRAFIX AG</b> Lettenstraße 2 CH-6343 Rotkreuz
<b>description of samples</b>	white selfadhesive film consisting of Vinyl
<b>name of the material</b>	„MyFloorFilm“
<b>sampling</b>	by the company itself
<b>content of request</b>	Proof of flammability to classify building materials to class B1 “schwerentflammbar” according to DIN 4102, part 1
<b>validity of test report</b>	31.05.2025
<b>result</b>	<b>The examined product meets the requirements of class B1 for “schwerentflammbare” (hardly flammable) building materials according to DIN 4102, part 1 (May 1998) ,</b> <ul style="list-style-type: none"><li>• <b>if glued on metallic substrates with a density of <math>\geq 2.025 \text{ kg/m}^3</math>, a melting point of <math>\geq 500^\circ\text{C}</math> and a thickness of <math>\geq 0,8\text{mm}</math></b></li><li>• <b>if glued on metallic substrates with a density of <math>\geq 5.890 \text{ kg/m}^3</math>, a melting point of <math>\geq 1000^\circ\text{C}</math> and a thickness of <math>\geq 0,6\text{mm}</math></b></li></ul>

This test report includes 4 pages and 5 enclosures.

Remark: If the above mentioned building material is not used as product according to MBO § 2, Abs. 9, Ziffer1, there is no need for a general building supervisory test report.

This test report is not valid if the examined building material is used as product in the meaning of state building prescriptions (MBO § 17, Abs. 3).

This test report does not replace an eventually necessary proof of applicability concerning building supervisory or building laws in the meaning of state building prescriptions. This has to be verified by:

- “allgemeine bauaufsichtliche Zulassung” (general building inspectorate approval) or by
- „allgemeines bauaufsichtliches Prüfzeugnis“ (general building inspectorate certificate) or by
- “Zustimmung im Einzelfall” (exceptional approval)

This test report can underlie building supervisory procedures

- for regular building products for the prescribed proofs of conformity
- for non regular building products for the needed proofs of applicability.

This test report must not be published and copied without preceding agreement of the test laboratory and if agreed, only during validity and unchanged concerning appearance and contents.

## 1. Description of test material in condition as delivered

PN31251 and PN 31418 (additional delivery):

“MyFloorFilm” -white selfadhesive film consisting of Vinyl-  
side A: front, white / side B: back, grey

characteristic values determined by the test laboratory:

whole thickness: about 0,25 mm / whole area weight: about 286 g/m<sup>2</sup>

thickness of selfadhesive film: about 0,12 mm

area weight of selfadhesive film: about 171 g/m<sup>2</sup>

The testing laboratory is not provided with further details concerning composition of the tested building materials. Samples are deposited.

## 2. Preparation of samples

The samples were kept in climate chamber 23/50 until they reached constant weight.  
The film was glued on aluminium panels with a thickness of about 1,0 mm, according to  
DIN 4102-16: 2015-09, point 4.4, d, II.

## 3. Arrangement of samples - freely suspended -

#3546 flaming in machine direction  
#3576 flaming in transverse direction  
#3582 flaming in transverse direction  
#3583 flaming in transverse direction

## 4. Date of test CW 21 until CW 23 in 2020

## 5. Results The test has been examined according to DIN 4102 (Mai 1998)

line no.	Measurement	Result with the tested specimen				Dim.
		#3546	#3576	#3582	#3583	
	Test number	#3546	#3576	#3582	#3583	
	flaming direction	machine	transv.	transv.	transv.	
1	Number of specimen arrangement acc. to. DIN 4102/T15, schedule 1	7	7	7	7	
2	Maximum flame height above bottom edge of the specimen	80	70	80	80	cm
3	Time <sup>1)</sup>	0:44	0:43/1:17	0:49	0:38	min:s
4	Burn through / melting (foam) Time <sup>1)</sup>	./.	./.	./.	./.	min:s
5	Observations on the back side of the specimen Flames / Glowing Time <sup>1)</sup>	---	---	---	---	min:s
6	Change of color Time <sup>1)</sup>	---	---	---	---	min:s
7	Falling of burning droplets Start <sup>1)</sup>	---	---	---	---	min:s
8	Extent sporadic falling of burning droplets <sup>2)</sup>	---	---	---	---	
9	continuous falling of burning droplets <sup>2)</sup>	---	---	---	---	min:s
10	Falling of burning droplets Start <sup>1)</sup>	./.	./.	./.	./.	min:s
11	Extent sporadic falling of burning droplets <sup>2)</sup>	./.	./.	./.	./.	
12	continuous falling of burning droplets <sup>2)</sup>	./.	./.	./.	./.	



line no.	Measurement	Result with the tested specimen				Dim.
		#3546	#3576	#3582	#3583	
	Test number	machine	transv.	transv.	transv.	
	flaming direction	machine	transv.	transv.	transv.	
13	<u>Afterflame time at the bottom of the sieve (max.)</u>	./.	./.	./.	./.	min:s
14	<u>Impairment of the burner by dropping or falling material:</u> Time <sup>1)</sup>	./.	./.	./.	./.	min:s
15	<u>Premature end of test</u> Final occurrence of burning at the specimen <sup>1)</sup>	./.	./.	./.	./.	min:s
16	Time of eventually end of test <sup>1)</sup>	./.	./.	./.	./.	min:s
17	<u>Afterflame after end of test</u> Time <sup>1)</sup>	./.	./.	./.	./.	min:s
18	Number of specimen	./.	./.	./.	./.	
19	Front side of specimen <sup>2)</sup>	./.	./.	./.	./.	
20	Back side of specimen <sup>2)</sup>	./.	./.	./.	./.	
21	flame length	./.	./.	./.	./.	cm
22	<u>Afterglow after end of test</u> Time <sup>1)</sup>	./.	./.	./.	./.	min:s
23	Number of specimen	./.	./.	./.	./.	
24	<u>Place of appearance</u> Lower half of the specimen <sup>2)</sup>	./.	./.	./.	./.	
25	Upper half of the specimen <sup>2)</sup>	./.	./.	./.	./.	
26	Front side of specimen <sup>2)</sup>	./.	./.	./.	./.	
27	Back side of specimen <sup>2)</sup>	./.	./.	./.	./.	
28	<u>Density of smoke</u> ≤ 400 % * min	32	35	37	32	% * min
29	> 400 % * min <sup>4)</sup>	./.	./.	./.	./.	% * min
30	Diagram: encl. no.	1	2	3	4	
31	<u>Residual lengths: individual value<sup>3)</sup></u> Specimen 1 Specimen 2 Specimen 3 Specimen 4	31 38 34 31	32 29 31 32	36 32 34 33	39 38 38 34	cm cm cm cm
32	<u>Average value, individual test<sup>3)</sup></u>	34	31	34	37	
33	<u>Photo of specimen in enclosure no.</u>	1	2	3	4	
34	<u>Flue gas temperature</u>	118	116	124	130	°C
35	Maximum of average value Time <sup>1)</sup>	10:00	9:45	1:14	1:10	min:s
36	Diagram: encl. no.	1	2	3	4	
37	Remarks: - none -					

<sup>1)</sup> indication of times: from the begin of testing procedure

<sup>2)</sup> checked off if applicable

<sup>3)</sup> indication of carrier/foam layer separated in case of fire-proofing agents

<sup>4)</sup> very strong development of smoke

## 6. Explanations concerning the testing procedure

-none-

## 7. Summary of results and additional establishments to Fire Behaviour

lineo	Measurement test-no.	Result with the tested specimen				Dim.
		#3546 machine dir.	#3576 transv. dir.	#3582 transv. dir.	#3583 transv. dir.	
1	residual length	34	31	36	37	cm
2	max. smoke temperature	118	116	124	130	°C
3	density of smoke - integral	32	35	37	32	%min
4	remarks: -none-					

According to DIN 4102, part 1, "schwerentflammbare" (hardly flammable) building materials must meet the requirements of class B2.

Pursuant to additional tests in the ignitability apparatus this can be determined (appendix 5).

## 8. Special remarks

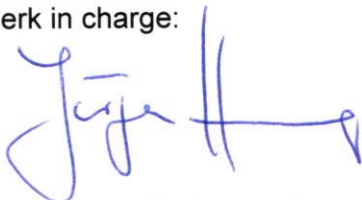
- This report is only valid for the material as described under paragraph 1. In combination with other materials or with additional coatings or grounds etc. the burning behaviour may differ.
- This test report is not valid for the exposure to outdoor climate conditions.
- This test report is not valid, as soon as the fabric is used as a building product in the sense of the "Landesbauordnungen" (state building requirements, MBO § 17, par. 3).
- This test report is no substitute for a General Building Inspectorate Certificate.
- This test report is granted without prejudice to the rights of third parties, in particular private proprietary rights.
- For legal interests only the German original version is relevant.
- In General Building Inspectorates procedures this test report can be based for
  - regular building materials for the required proof of accordance
  - for not regular building materials for the required proof of applicability

## 9. Validity

This test report is valid until the mentioned date on page 1. The test report becomes invalid in case the standards on which the tests are based are changed.

Fladungen, 03.06.2020

clerk in charge:



(Dipl.-Ing. (FH) Jürgen Hammer)



Head of the test laboratory:



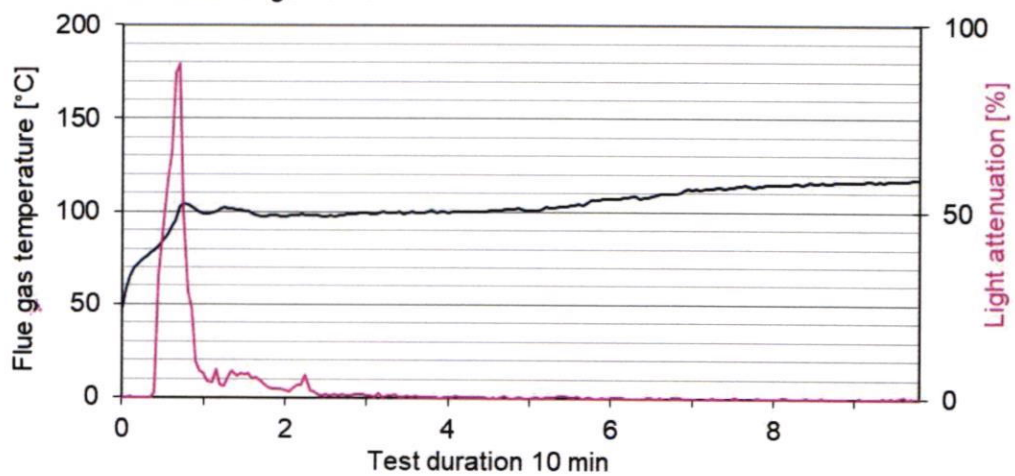
(Dipl.-Ing.(FH) Andreas Hoch)

**„Brandschacht“-test #3546**



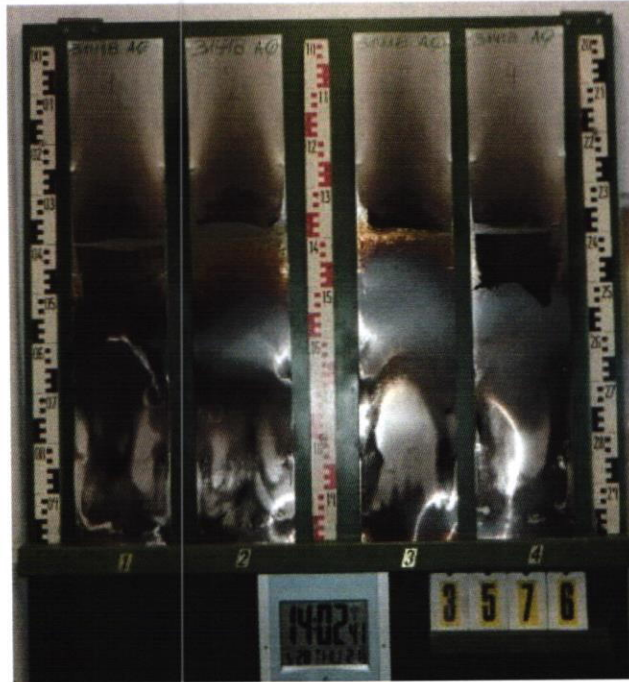
**measurement**

**#3546, PN31251: CONTINENTAL GRAFIX, "MyFloorFilm", L**  
Max. flue temperature: 118°C, Smoke density integral: 32%min  
Residual length: 34 cm



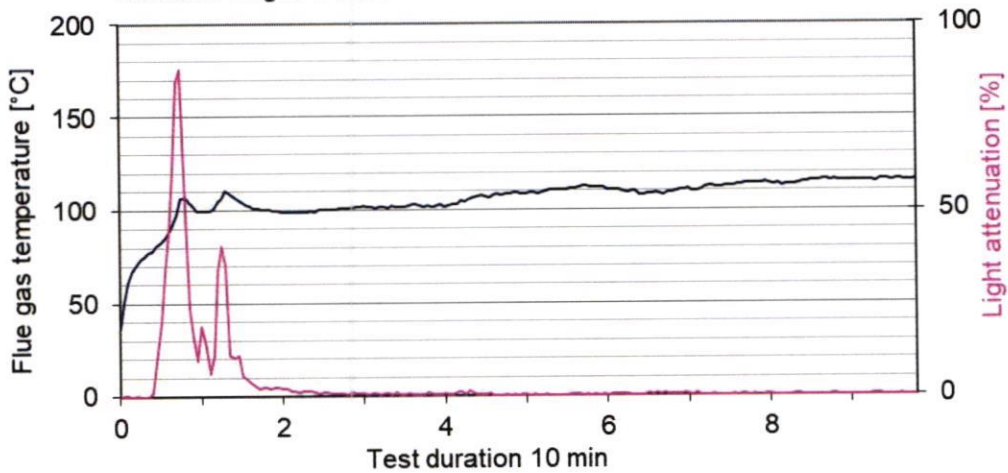


**„Brandschacht“-test #3576**

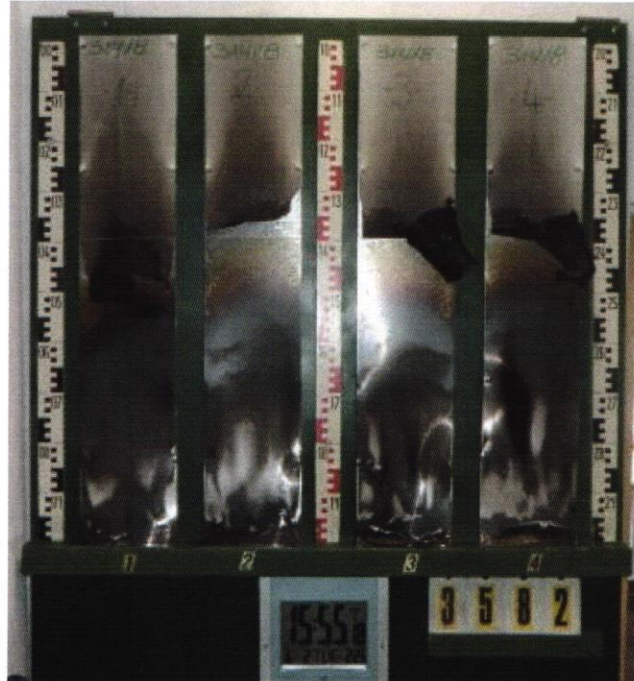


**measurement**

**#3576, PN31418: CONTINENTAL GRAFIX, "MyFloorFilm", Q**  
Max. flue temperature: 116°C, Smoke density integral: 35%/min  
Residual length: 31 cm

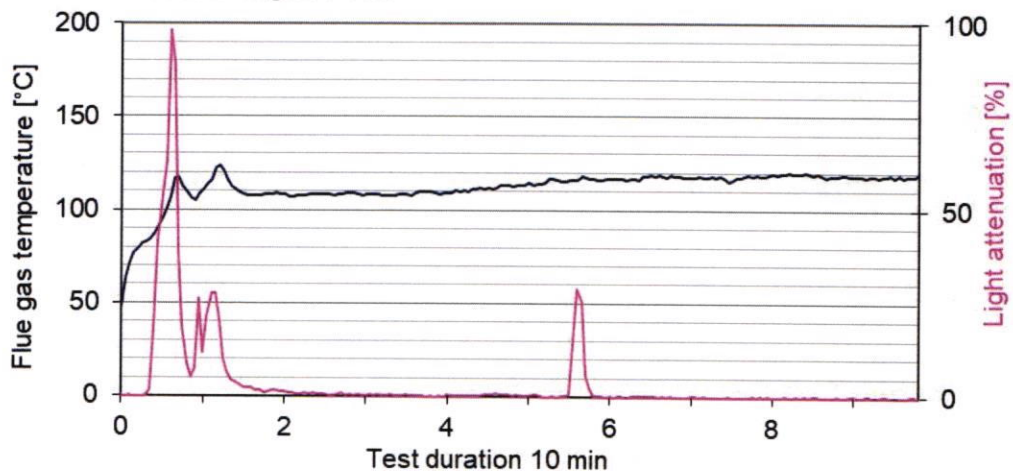


**„Brandschacht“-test #3582**

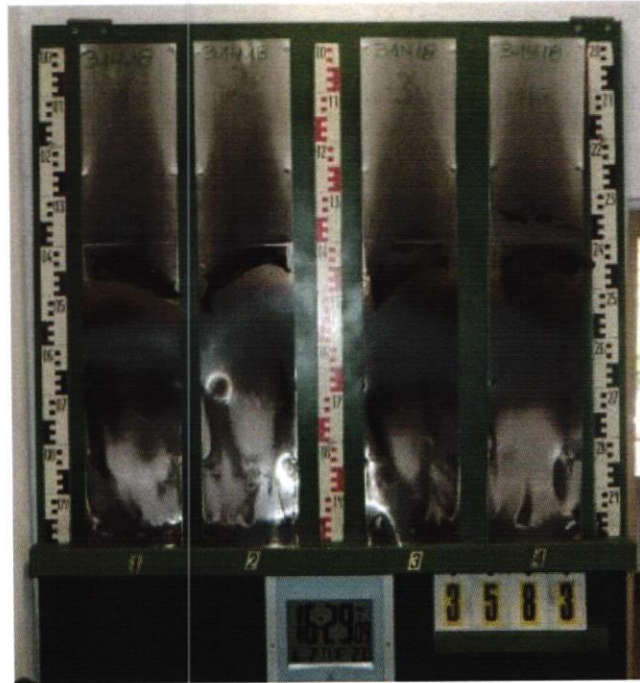


**measurement**

**#3582, PN31418: CONTINENTAL GRAFIX, "MyFloorFilm", Q**  
Max. flue temperature: 124°C, Smoke density integral: 37%min  
Residual length: 34 cm

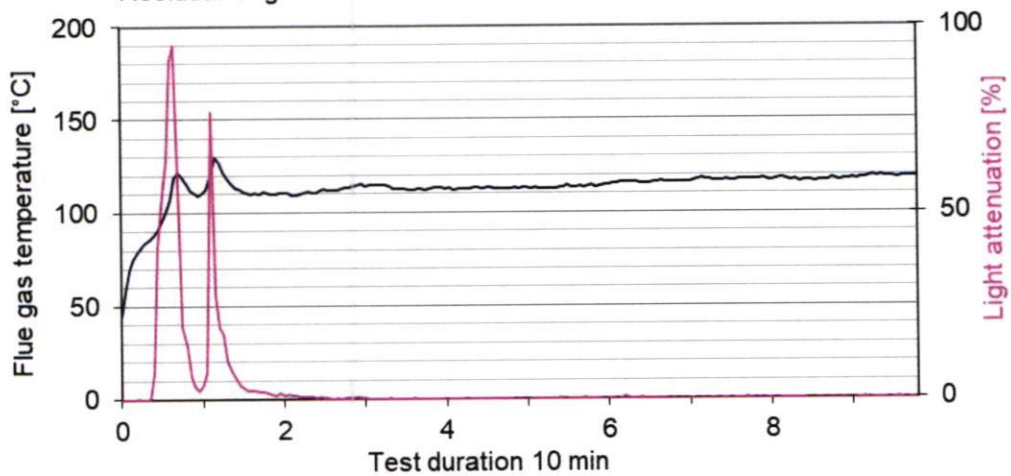


**„Brandschacht“-test #3583**



**measurement**

**#3583, PN31418: CONTINENTAL GRAFIX, "MyFloorFilm", Q**  
Max. flue gas temperature: 130°C, Smoke density integral: 32%min  
Residual length: 37 cm





**Test for normal flammability  
 classifying B2 according to DIN 4102**

1. Description of test material in condition as delivered look at page 2

2. Preparation of samples

Out of the material there have been cut samples for the ignitability apparatus.  
 The samples were kept in a climate 23/50 until they reached constant weight.

3. Arrangement of samples

- glued on aluminium panels
- flaming in machine direction and in transverse direction

4. Date of test CW 21 and CW 22 in 2020

5. Results

flaming in machine direction	edge-test						surface-test						Dim
	1	2	3	4	5	6	1	2	3	4	5	6	
samples no.	1	2	3	4	5	6	1	2	3	4	5	6	
ignition <sup>1)</sup>	1	1	1	1	1	--	-/-	--	--	--	--	--	s
reaching the mark of measurement <sup>1)2)</sup>	-/-	-/-	-/-	-/-	-/-	--	-/-	--	--	--	--	--	s
max. flame height	<b>1</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>2</b>	--	<b>2</b>	--	--	--	--	--	cm
time	1	1	1	1	1	--	-/-	--	--	--	--	--	s
self cessation of the flames end of afterflame <sup>1)</sup>	15	15	15	15	16	--	-/-	--	--	--	--	--	s
flames were extinguished after <sup>1)</sup>	-/-	-/-	-/-	-/-	-/-	--	-/-	--	--	--	--	--	s
smoke development (visual)	little						little						
dropping of burning material during 20 s <sup>1)</sup>	-/-	-/-	-/-	-/-	-/-	--	-/-	--	--	--	--	--	s
Appearance after test: burned out till max. height 1,5 cm x width 1 cm													

flaming in transverse direction	edge-test						surface-test						Dim
	1	2	3	4	5	6	1	2	3	4	5	6	
samples no.	1	2	3	4	5	6	1	2	3	4	5	6	
ignition <sup>1)</sup>	1	--	--	--	--	--	-/-	--	--	--	--	--	s
reaching the mark of measurement <sup>1)2)</sup>	-/-	--	--	--	--	--	-/-	--	--	--	--	--	s
max. flame height	<b>1</b>	--	--	--	--	--	<b>2</b>	--	--	--	--	--	cm
time	1	--	--	--	--	--	-/-	--	--	--	--	--	s
self cessation of the flames end of afterflame <sup>1)</sup>	15	--	--	--	--	--	-/-	--	--	--	--	--	s
flames were extinguished after <sup>1)</sup>	-/-	--	--	--	--	--	-/-	--	--	--	--	--	s
smoke development (visual)	little						little						
dropping of burning material during 20 s <sup>1)</sup>	-/-	--	--	--	--	--	-/-	--	--	--	--	--	s
Appearance after test: burned out till max. height 1,5 cm x width 1 cm													

<sup>1)</sup> time mentioned from the beginning of the test <sup>2)</sup> during 20 Sec -/- no appearance -- no information

6. Remarks and explanations to the testing procedure - none -

7. Opinion concerning the dropping of burning material

The test for normal flammability shows no dropping burning material.