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Hoch Fladungen

Test laboratory for the fire behavior of building materials
Testing, supervising and certifying body, authorized by the building supervision authority

TEST REPORT
PZ-Hoch-240532-4

for the proof of Fire behaviour according to DIN 4102, part 1
Translation of the German test report – no guarantee for translation of technical terms

company	**Neschen Coating GmbH** Hans-Neschen-Str. 1 **D-31675 Bückeburg**
description of samples	printable, glossy self-adhesive film, consisting of PVC, white, glossy
name of the material	**„print performance GP blockout air-matrix“**
sampling	by the company itself
content of request	Proof of flammability to classify building materials to class B1 “schwerentflammbar” according to DIN 4102, part 1
validity of test report	30.04.2029
result	**The examined product meets glued on glass surfaces in a minimal thickness of 4,0mmthe requirements of class B1 for “schwerentflammbare” (hardly flammable) building materials according to DIN 4102, part 1 (May 1998).**

This test report includes 4 pages and 3 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This test report must not be published and copied without preceding agreement of the test laboratory and if agreed, only during validity and unchanged concerning appearance and contents.

member of egolf
notified body no.: 1508

By the DAkkS according to DIN EN ISO/IEC 17025 accredited test laboratory.
The accreditation is valid for the testing methods specified in the certificate.

DAkkS Deutsche Akkreditierungsstelle D-PL-11005-01-00

1. Description of test material in condition as delivered

PN 39043: „print performance GP blockout air-matrix“

- printable, glossy self-adhesive film, consisting of PVC, white, glossy -

characteristic values determined by the test laboratory:
whole thickness: about 0,39 mm
whole area weight: about 445 g/m²
thickness of self-adhesive foil: about 0,21 mm
area weight of self-adhesive foil: about 291 g/m²

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

2. Preparation of samples

The material was glued on single pane glass in a thickness of about 4,0mm.
The samples were kept in climate chamber 23/50 until they reached constant weight.

3. Arrangement of samples

mounting: glued on single glass pane

#7613: flaming in machine direction
#7614: flaming in transverse direction

4. Date of test

CW 15 in 2024

5. Results

The test has been examined according to DIN 4102 (Mai 1998)

line no.	Measurement	Result with the tested specimen			Dim.
	Test number	**#7613**	**#7614**	-	
	flaming direction	warp	weft	-	
	substrate	glass	glass	-	
1	Number of specimen arrangement acc. to. DIN 4102/T15, schedule 1	7	7	-	
2	Maximum flame height	60	60		cm
3	Time [1]	1:32	1:02	-	min:s
4	Burn-through / melting [1]	./.	./.	-	min:s
	Observations on the back side				
5	Flames / Glowing [1]	-/-	-/-		min:s
6	Change of colour [1]	-/-	-/-	-	min:s
7	Falling of burning droplets [1]	-/-	-/-		
8	sporadic falling of burning droplets [2]	--	--		min:s
9	continuous falling of burning droplets [2]	--	--	-	min:s
10	Falling of burning parts [1]	-/-	-/-		min:s
11	sporadic falling of burning parts [2]	--	--		
12	continuous falling of burning parts [2]	--	--	-	
13	Burning duration at sieve plate (max.)	-/-	-/-	-	min:s
14	Impairment of burner by material [1]	-/-	-/-	-	min:s
15	End of burning at the specimen [1]	4:14	3:05		min:s
16	Time of eventually end of test [1]	-/-	-/-	-	min:s
17	Afterburning after end of test [1]	-/-	-/-		min:s
18	Number of specimens	--	--		
19	Front side / Rear side of specimen [2]	--	--		
20	flame length	--	--	-	cm

line no.	Measurement	Result with the tested specimen			Dim.
	Test number	**#7613**	**#7614**	**-**	
	flaming direction	warp	weft	-	
	substrate	glass	glass	-	
21	Afterglow after end of test [1]	-/-	-/-		min:s
22	Number of specimens	--	--		
23	Lower / Upper half of the specimen [2]	--	--		
24	Front side / Rear side of specimen [2]	--	--	-	
25	Density of smoke ≤ 400 % * min	6	4	-	%min
26	> 400 % * min [4]	-	-	-	%min
27	Residual lengths: individual values [3] Specimen 1	45	45		cm
	Specimen 2	44	46		cm
	Specimen 3	42	44		cm
	Specimen 4	47	46	-	cm
28	Average residual length [3]	**45**	**45**	**-**	cm
29	Maximum smoke temperature	**108**	**107**	-	°C
30	Time [1]	09:45	09:36	-	min:s
31	Diagrams / photos in enclosure no.	1	2	-	
32	Remarks: - none -				

[1] indication of times: from the begin of testing procedure
[2] checked off if applicable
[3] indication of carrier/foam layer separated in case of fire-proofing agents
[4] very strong development of smoke

6. Explanations concerning the testing procedure

There were no additional tests proceeded because of the residual length of ≥ than 45 cm.

7. Summary of results and additional establishments to Fire Behaviour

lineno.	measurement	Result with the tested specimen			dimension
	test-no.	#7613	#7614	-	
	flamed direction substrate	machine dir. glass	transverse dir. glass	-	
1	residual length	**45**	**45**	-	cm
2	max. smoke temperature	**108**	**107**	-	°C
3	density of smoke - integral	**6**	**4**	-	%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 3).

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
- Changes in the report with index -4: name and address of the company & name of the material.

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, 18.03.2026

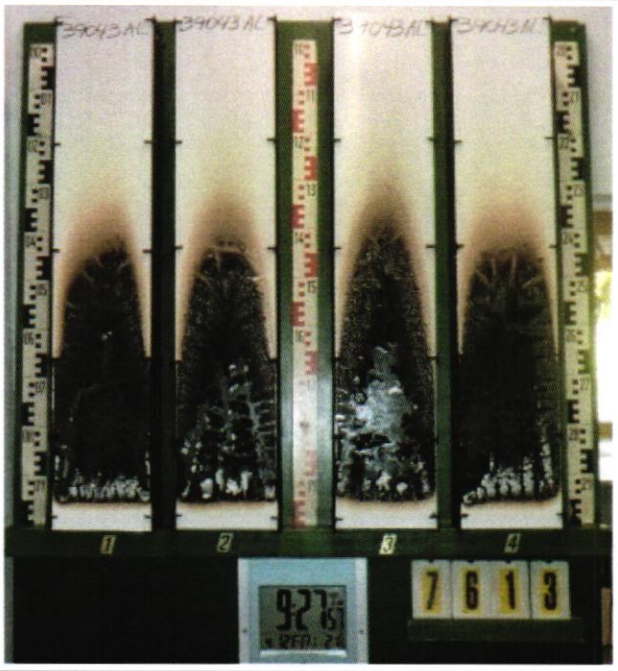
clerk in charge:

(Silke Biendara)

Head of the test laboratory:

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

„Brandschacht"-test #7613

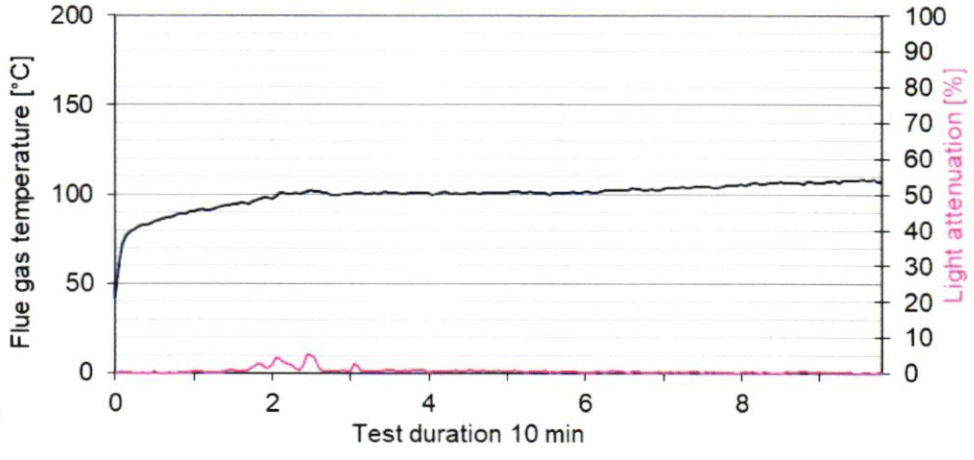


measurement

#7613, PN39043: maschine direction

Max. flue temperature: 108°C, Smoke density integral: 6%min

Residual length: 45 cm



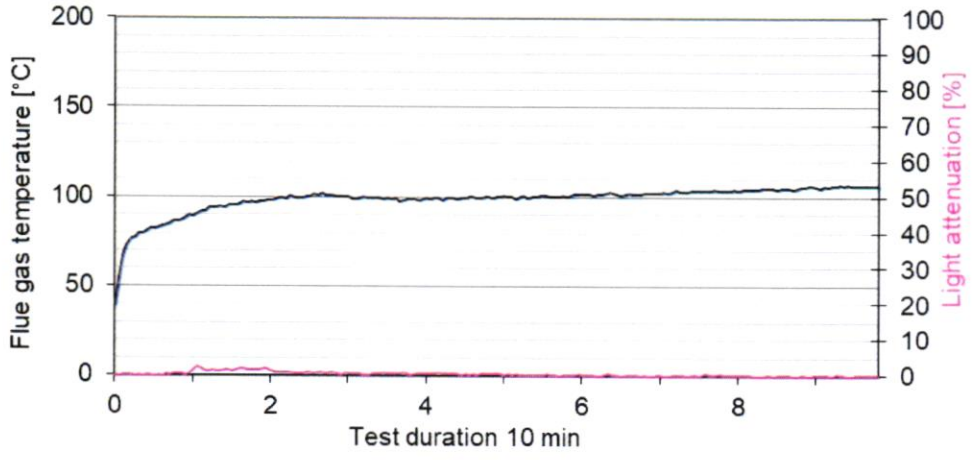
„Brandschacht"-test #7614

measurement

#7614, PN39043: transverse direction

Max. flue temperature: 107°C, Smoke density integral: 4%min

Residual length: 45 cm



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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 single plain glass -

   Flaming in machine and in transverse direction
4. Date of test CW 15 in 2024
5. Results

PN 39043: flaming in machine direction	edge-test						surface-test						Dim
samples no.	1	2	3	4	5	6	1	2	3	4	5	6	
ignition[1)]	1	1	1	1	1	--	5	--	--	--	--	--	s
reaching the mark of measurement[1)2)]	-/-	-/-	-/-	-/-	-/-	--	-/-	--	--	--	--	--	s
max. flame height	**4**	**4**	**4**	**4**	**4**	**--**	**3**	--	--	--	--	--	cm
time[1)]	6	6	6	6	6	--	8	--	--	--	--	--	s
self-cessation of the flames end of afterflame[1)]	17	15	15	15	15	--	15	--	--	--	--	--	s
end of glowing[1)]	17	15	15	15	15	--	-/-	--	--	--	--	--	s
smoke development (visual)	moderate						little						
dropping of burning material during 20 s[1)]	-/-	-/-	-/-	-/-	-/-	--	-/-	--	--	--	--	--	s
Appearance after test: burned out till max. height 5 cm x width 2 cm													

PN 39043: flaming in transverse direction	edge-test						surface-test						Dim
samples no.	1	2	3	4	5	6	1	2	3	4	5	6	
ignition[1)]	1	--	--	--	--	--	5	--	--	--	--	--	s
reaching the mark of measurement[1)2)]	-/-	--	--	--	--	--	-/-	--	--	--	--	--	s
max. flame height	**4**	--	--	--	--	--	**3**	--	--	--	--	--	cm
time[1)]	6	--	--	--	--	--	8	--	--	--	--	--	s
self-cessation of the flames end of afterflame[1)]	17	--	--	--	--	--	15	--	--	--	--	--	s
end of glowing[1)]	17	--	--	--	--	--	-/-	--	--	--	--	--	s
smoke development (visual)	moderate						little						
dropping of burning material during 20 s[1)]	-/-	--	--	--	--	--	-/-	--	--	--	--	--	s
Appearance after test: burned out till max. height 5 cm x width 2 cm													

[1)] time mentioned from the beginning of the test [2)] 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 burning dripping material.

End of enclosures