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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-261578

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	**SAINT CLAIR TEXTILES** 415, avenue de Savoie F-38110 Saint Clair de la Tour
description of samples	- polyester mesh fabric coated with pvc - colour: white
name of the material	**„OPTIMESH"**
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	31.10.2031
result	**The examined product meets the requirements of class B1 for "schwerentflammbare" (hardly flammable) building materials according to DIN 4102, part 1 (May 1998), suspended freely or with distance of > 40 mm to same or other plain materials.**

This test report includes 4 pages and 4 enclosures.

Remark: If the above mentioned building material is not used as product according to MBO § 2, Abs. 10, there is no need for a general building supervisory test report.

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This test report must not be published and copied without preceding agreement of the test laboratory and if agreed, only during validity and unchanged concerning appearance and contents.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 45282: **"OPTIMESH"** colour: white

- polyester mesh fabric coated with pvc -

side A: a little bit smoother surface

characteristic values determined by the test laboratory:

area weight: about 354 g/m² thickness: about 0,53 mm

All values determined by the laboratory are marked as such. All other information (including the material designation) is declared by the manufacturer.
The testing laboratory is not provided with further details concerning composition of the tested building materials. Samples are deposited.

2. Preparation of samples

Samples with a size of 1000 mm height and 190 mm width where cut from the material for fire testing.

The samples were kept in climate chamber 23/50 until they reached constant weight.

3. Arrangement of samples

mounting: freely suspended

#2470: flaming side A in warp direction
#2471: flaming side B in warp direction
#2472: flaming side A in weft direction

4. Date of test

CW 46 in 2026

5. Results

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

line no.	Measurement	Result with the tested specimen					Dim.
	Test number	**#2470**	**#2471**	**#2472**	---	---	
	flamed direction flamed side	warp A	warp B	weft A	---	---	
1	Number of specimen arrangement acc. to. DIN 4102/T15, schedule 1	1	1	1	---	---	
2	Maximum flame height above bottom edge of the specimen	50	50	50	---	---	cm
3	Time [1]	0:06	0:05	0:05	---	---	min:s
4	Burn through / melting Time [1]	0:07	0:07	0:06	---	---	min:s
	Observations on the back side of the specimen						
	Flames / Glowing	---	---	---	./.	./.	
5	Time [1]	./.	./.	./.	./.	./.	min:s
	Change of color	---	---	---	./.	./.	
6	Time [1]	./.	./.	./.	./.	./.	min:s
	Falling of burning droplets	./.	./.	X	./.	./.	
7	Start [1]			0:46	./.	./.	min:s
	Extent						
8	sporatic falling of burning droplets [2]	---	---	X	./.	./.	
9	continuous falling of burning droplets [2]	---	---	---	./.	./.	min:s

line no.	Measurement	Result with the tested specimen					Dim.
	Test number	**#2470**	**#2471**	**#2472**	---	---	
	flamed direction flamed side	warp A	warp B	weft A	---	---	
	Falling of burning droplets	./.	./.	./.	./.	./.	
10	Start [1]						min:s
	Extent	./.	./.	./.	./.	./.	
11	sporatic falling of burning droplets [2]						
12	continuous falling of burning droplets [2]	./.	./.	./.	./.	./.	
13	Afterflame time at the bottom of the sieve (max.)	./.	./.	0:08	./.	./.	min:s
14	Impairment of the burner by dropping or falling material: Time [1]	./.	./.	./.	./.	./.	min:s
15	Final occurance of burning at the specimen [1]	0:30	0:45	0:46	./.	./.	min:s
16	Time of eventually end of test [1]	./.	./	./.	./.	./.	min:s
	Afterflame after end of test						
17	Time [1]	./.	./.	./.	./.	./.	min:s
18	Number of specimen	./.	./.	./.	./.	./.	
19	Front side of specimen [2]	./.	./.	./.	./.	./.	
20	Back side of specimen [2]	./.	./.	./.	./.	./.	
21	flame length	./.	./.	./.	./.	./.	cm
	Afterglow after end of test	./.	./.	./.	./.	./.	
22	Time [1]	./.	./.	./.	./.	./.	min:s
23	Number of specimen	./.	./.	./.	./.	./.	
	Place of appearance	./.	./.	./.	./.	./.	
24	Lower half of the specimen [2]	./.	./.	./.	./.	./.	
25	Upper half of the specimen [2]	./.	./.	./.	./.	./.	
26	Front side of specimen [2]	./.	./.	./.	./.	./.	
27	Back side of specimen [2]	./.	./.	./.	./.	./.	
	Density of smoke						
28	≤ 400 % * min	16	16	9	---	---	% * min
29	> 400 % * min [4]	./.	./.	./.	./.	./.	% * min
30	Diagram: encl. no.	1	2	3	---	---	
	Residual lengths: individual value [3]						
	Specimen 1	65	67	61	---	---	cm
31	Specimen 2	70	70	65	---	---	cm
	Specimen 3	67	70	69	---	---	cm
	Specimen 4	67	68	71	---	---	cm
32	Average value, individual test [3]	**67**	**69**	**67**	---	---	
33	Photo of specimen in enclosure no.	1	2	3	---	---	
34	Flue gas temperature	113	111	113	---	---	°C
35	Maximum of average value Time [1]	09:33	08:50	10:00	---	---	min:s
36	Diagram: encl. no.	1	2	3	---	---	
37	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 45cm.

7. Summary of results and additional establishments to Fire Behaviour

line no.	measurement	Result with the tested specimen					dimension
	test-no.	#2470	#2471	#2472	---	---	
	flamed direction flamed side	warp A	warp B	weft A	---	---	
1	residual length	**67**	**69**	**67**	---	---	cm
2	max. smoke temperature	**113**	**111**	**113**	---	---	°C
3	density of smoke - integral	**16**	**16**	**9**	--	--	%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 4).

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 no substitute for a General Building Inspectorate Certificate.
- This test report is granted without prejudice to the rights of third parties, im 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
- This test report is granted without prejudice to the rights of third parties, im particular private proprietary rights.
- No measurement uncertainties of the results were taken into account in the assessment.

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, 11.11.2026

clerk in charge:

(Dipl.-Ing.(FH) Jürgen Hammer)

ANERKANNTE PRÜF-, ÜBERWACHUNGS- UND ZERTIFIZIERUNGSSTELLE Hoch Fladungen

Head of the test laboratory:

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

End of report

„Brandschacht“-test #2470

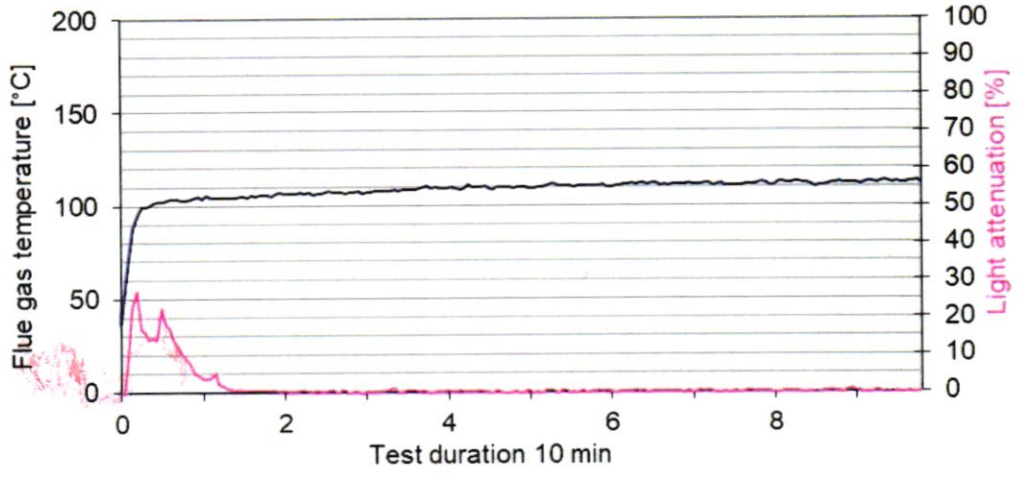


measurement

#2470, PN45282: A + K

Max. flue temperature: 113°C, Smoke density integral: 16%min

Residual length: 67 cm



„Brandschacht“-test #2471

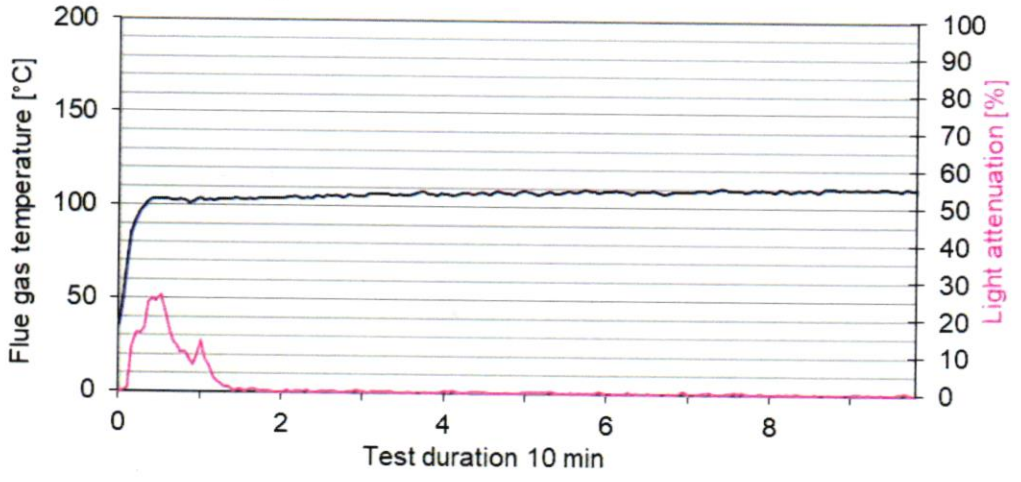


measurement

#2471, PN45282: B + K

Max. flue temperature: 111°C, Smoke density integral: 16%min

Residual length: 69 cm



„Brandschacht“-test #2472

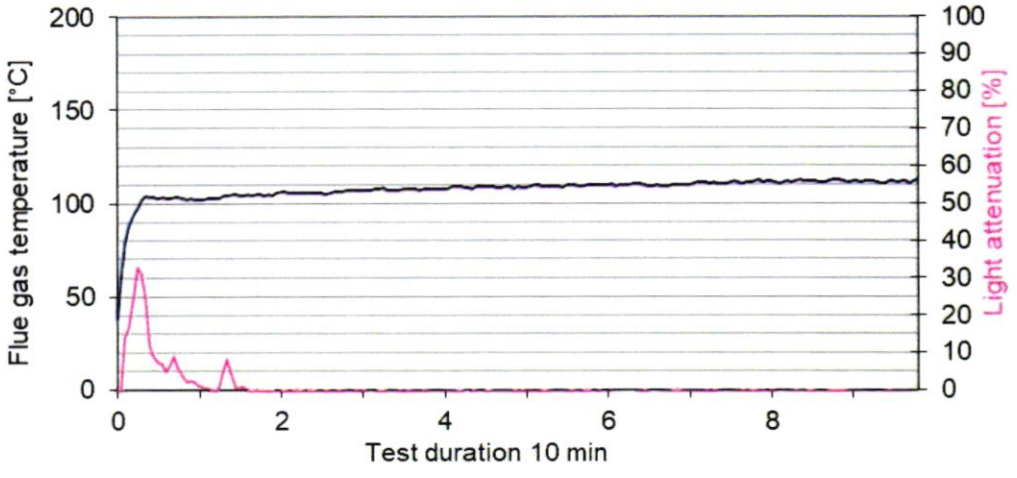


measurement

#2472, PN45282: A + S

Max. flue temperature: 113°C, Smoke density integral: 9%min

Residual length: 67 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
   - freely suspended-
   - Flaming in warp and weft direction / side A and side B
4. Date of test CW 46 in 2026
5. Results

flaming side B in warp direction	surface-test						edge-test						Dim
samples no.	1	2	3	4	5	6	1	2	3	4	5	6	
ignition[1)]	3	3	3	3	3	--	1	--	--	--	--	--	s
reaching the mark of measurement[1)2)]	-/-	-/-	-/-	-/-	-/-	--	-/-	--	--	--	--	--	s
max. flame height	**13**	**12**	**12**	**11**	**14**	--	**13**	--	--	--	--	--	cm
time	13	15	11	11	14	--	8	--	--	--	--	--	s
self cessation of the flames end of afterflame[1)]	15	15	15	15	15	--	11	--	--	--	--	--	s
end of glowing[1)]	-/-	-/-	-/-	-/-	-/-	--	-/-	--	--	--	--	--	s
flames were extinguished after[1)]	-/-	-/-	-/-	-/-	-/-	--	-/-	--	--	--	--	--	s
smoke development (visual)	very heavy						very heavy						
dropping of burning material during 20 s[1)]	-/-	-/-	-/-	-/-	-/-	--	-/-	--	--	--	--	--	s
Appearance after test: burned out till max. height 12 cm x width 2 cm													

additional tests	edge-test						surface-test						Dim
samples no.	1	2	3	4	5	6	1	2	3	4	5	6	
arrangement of samples side / direction	A/K	A/S	B/S	--	--	--	A/K	A/S	B/S	--	--	--	
ignition[1)]	1	1	1	--	--	--	3	3	3	--	--	--	s
reaching the mark of measurement[1)2)]	-/-	-/-	-/-	--	--	--	-/-	-/-	-/-	--	--	--	s
max. flame height	**12**	**12**	**11**	--	--	--	**12**	**12**	**12**	--	--	--	cm
time	8	10	7	--	--	--	11	10	11	--	--	--	s
self cessation of the flames end of afterflame[1)]	9	15	15	--	--	--	15	16	13	--	--	--	s
end of glowing[1)]	-/-	-/-	-/-	--	--	--	-/-	-/-	-/-	--	--	--	s
flames were extinguished after[1)]	-/-	-/-	-/-	--	--	--	-/-	-/-	-/-	--	--	--	s
smoke development (visual)	very heavy						very heavy						
dropping of burning material during 20 s[1)]	-/-	-/-	-/-	--	--	--	-/-	-/-	-/-	--	--	--	s
Appearance after test: burned out till max. height 12 cm x width 2 cm													

[1)] time mentioned from the beginning of the test [2)] during 20 Sec -/- no appearance -- no information
K: warp / S: weft

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