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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-241179

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 fabric, coated with pvc on both sides

colour: white

name of the material

"BLOCKLIGHT"

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

31.08.2029

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. 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)

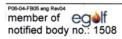
This test report can underlie building supervisory procedures

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This test report must not be published and copied without preceding agreement of the test laboratory and if agreed, only during validity and unchanged concerning appearance and contents.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

PN 39989: "BLOCKLIGHT" colour: white

-polyester fabric, coated with pvc on both sides-

side A: smoother surface

characteristic values determined by the test laboratory:

area weight: about 634g/m²

thickness: about 0,47mm

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.

3. Arrangement of samples

mounting: freely suspended

#8294:

flaming side A in warp direction

#8295:

flaming side B in warp direction

#8296:

flaming side B in weft direction

4. Date of test CW 37 and 38 in 2024

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

o.	Measurement	Res	Result with the tested specimen							
line no	Test number	#8294	#8295	#8296						
≔	flaming direction / side	warp / A	warp / B	weft / B						
1	Number of specimen arrangement acc. to. DIN 4102/T15, schedule 1	1	1	1						
2 3	Maximum flame height above bottom edge of the specimen Time 1)	70 0:11	80 0:11	70 0:10		cm min:s				
4	Burn through / melting Time 1)	0:12	0:12	0:11		min:s				
5	Observations on the back side of the specimen Flames / Glowing Time ¹⁾ Change of colour Time ¹⁾	 .J. .J.	 J. J.	 .J. .J.	.J. .J. .J.	min:s				
7 8 9	Falling of burning droplets Start 1) Extent sporadic falling of burning droplets 2) continuous falling of burning droplets 2)	.J. 	.J. 	./. 	.1. .1. .1. .1.	min:s				
10	Falling of burning droplets Start 1) Extent	.J. 	X 0:23 X	J. 	./. ./.	min:s				
12					./.					
13	After flame time at the bottom of the sieve (max.)	./.	0:05	./.	./.	min:s				

o.	Measurement Result with the tested specimen						
line no.	Test number	#8294	#8295	#8296			
≔	flaming direction / side	warp / A	warp / B	weft / B			
14	Impairment of the burner by dropping or falling material: Time 1)	./.	J.	. <i>J</i> .	. <i>I</i> .	min:s	
15	Final occurance of burning at the specimen 1)	1:30	1:50	2:10	./.	min:s	
16	Time of eventually end of test 1)	./.	./.	.I.	.J.	min:s	
17 18 19 20 21	After flame after end of test Time ¹⁾ Number of specimen Front side of specimen ²⁾ Back side of specimen ²⁾ flame length	.J. .J. .J. .J.	J. J. J. J.	./. ./. ./. ./. ./.	./. ./. ./. ./. ./.	min:s	
22 23 24 25 26 27	Afterglow after end of test Time 1) Number of specimen Place of appearance Lower half of the specimen 2) Upper half of the specimen 2) Front side of specimen 2) Back side of specimen 2)	J. J. J. J. J. J. J.	J. J. J. J. J. J.	.J. .J. .J. .J. .J. .J.	./. ./. ./. ./. ./. ./. ./.	min:s	
28 29 30	Density of smoke ≤ 400 % * min > 400 % * min ⁴⁾ Diagram: encl. no.	23 ./. 1	46 ./. 2	49 ./. 3	 ./.	% * min % * min	
31	Residual lengths: individual value ³⁾ Specimen 1 Specimen 2 Specimen 3 Specimen 4	58 57 56 59	53 53 55 56	50 56 56 55	 	cm cm cm cm	
32	Average value, individual test 3)	58	54	54			
33	Photo of specimen in enclosure no.	1	2	3			
34 35	Flue gas temperature Maximum of average value Time 1)	108 09:42	109 09:39	109 10:00		°C min:s	
36	Diagram: encl. no.	1	2	3			
37	Remarks: - none -		2)				

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

6. Explanations concerning the testing procedure

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

7. Summary of results and additional establishments to Fire Behaviour

o.	measurement	Result with the tested specimen								
lineno.	test-no.	#8294 warp / A	#8295 warp / B	#8296 weft / B		dimen				
1	residual length	58	54	54		cm				
2	max. smoke temperature	108	109	109		°C				
3	density of smoke - integral	23	46	49		%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 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
 - o regular building materials for the required proof of accordance
 - o 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, 18.09.2024

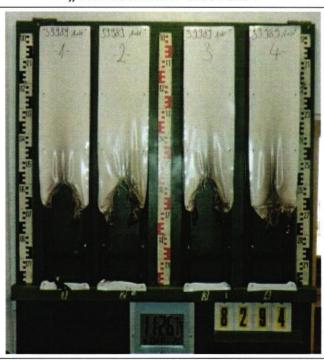
clerk in charge:

(Dipl.-Ing.(FH) Jürgen Hammer)

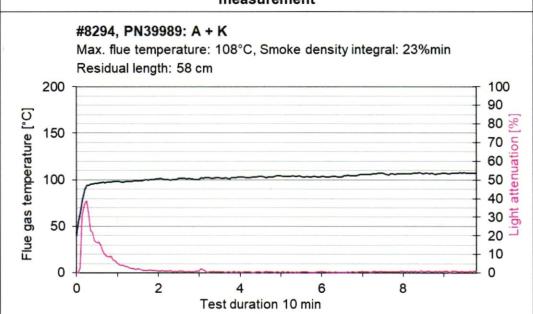
Head of the test laboratory:

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

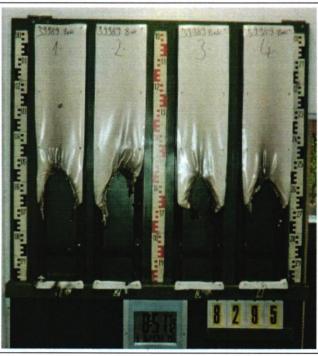




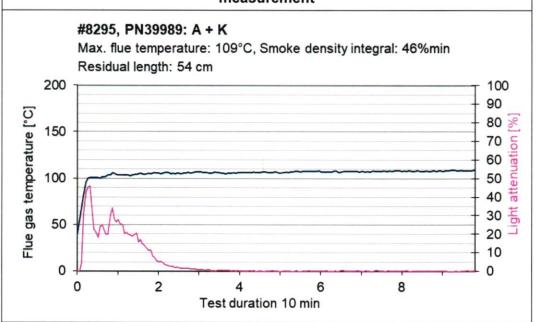
measurement



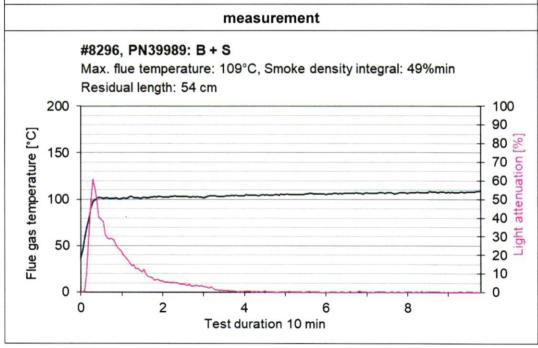




measurement







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 in weft direction / Flaming side A and side B

4. Date of test

CW 37 in 2024

5. Results

PN 39989: flaming side B in warp direction		(edge	-test				surface-test					
samples no.	1	2	3	4	5	6	1	2	3	4	5	6	- Ei
ignition ¹⁾	1	1	1	1	1		2						s
reaching the mark of measurement ¹⁾²⁾	./.	./.	./.	./.	./.	1	./.			-			s
max. flame height	13	11	11	11	12	1	9			1			cm
time	15	9	10	14	13		13						
self cessation of the flames end of afterflame ¹⁾	16	16	16	16	16		16						s
end of glowing ¹⁾	./.	./.	./.	./.	./.		./.						s
flames were extinguished after ¹⁾	./.	./.	./.	./.	. <i>I</i> . [[]		./.						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 7 cm x width 2 cm													

PN 39989: additional tests		е	dge-	test				sı	ırfac	e-tes	t		E
samples no.	1	2	3	4	5	6	1	2	3	4	5	6	Dim
arrangement of samples side / direction	A/wa	B/we					A/wa	B/we					
ignition ¹⁾	1	1					3	3					s
reaching the mark of measurement ¹⁾²⁾	./.	./.					./.	./.					s
max. flame height	12	12					10	7					cm
time	12	13					15	19					
self cessation of the flames end of afterflame ¹⁾	16	16			/		16	16					s
end of glowing ¹⁾	27	17					./.	./.					s
flames were extinguished after1)	./.	./.	-				./.	./.					s
smoke development (visual)		V	ery he	eavy			very heavy						
dropping of burning material during 20 s ¹⁾ Appearance after test: burned out till ma	./. ax. heid	./.	 m x w	 ridth 2	 2 cm		./.	./.					s

¹⁾ time mentioned from the beginning of the test 2) during 20 Sec -/- no appearance -- no information wa: warp direction / we: weft direction

- 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.