Prüfinstitut Hoch

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www.reaction-to-fire.de



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-200587-2

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

Heytex Bramsche GmbH

Heywinkelstraße 1 D-49565 Bramsche

description of samples

polyester mesh fabric, coated with ethylene vinyl acetate (EVA)

colour: white

name of the material

"H7071 Ecotex mesh B1"

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

30.06.2025

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.

This test report replaces the test report PZ-Hoch-200587 from 30.06.2020.

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This test report must not be published and copied without preceding agreement of the test laboratory and if agreed, only during validity and unchanged concerning appearance and contents.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 31507: "H7071 Ecotex mesh B1" colour: white

polyester mesh fabric, coated with ethylene vinyl acetate (EVA)

There is no difference between side A and side B.

characteristic values determined by the test laboratory:

area weight: about 185 g/m² thickness: about 0,32 mm

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

#3656: flaming side A in weft direction flaming side B in weft direction

#3658: flaming side B in warp direction

4. Date of test CW 27 in 2020

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

ı.	Measurement	Resi	ult with the	tested spec	cimen	Dim.
line no.	Test number	#3656	#3657	#3658		
≟	flaming direction / side	weft / A	weft / B	warp / B		
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 Time 1)	40 0:07	40 0:19	40 0:10		cm min:s
4	Burn through / melting Time 1)	0:04	0:04	0:04		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. .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)	X 0:22 X 	X 0:25 X 	X 0:13 X 	.1. .1. .1. .1.	min:s
10 11 12	Falling of burning droplets Start ¹⁾ Extent sporadic falling of burning droplets ²⁾ continuous falling of burning droplets ²⁾	.J. 	./. 	.J. 	.J. .J. .J.	min:s
13	After flame time at the bottom of the sieve (max.)	0:09	0:05	0:06	.1.	min:s

o.	Measurement	Res	ult with the	tested spe	cimen	Dim.
ine no.	Test number	#3656	#3657	#3658		
≟	flaming direction / side	weft / A	weft / B	warp / B		
	Impairment of the burner by dropping					
14	or falling material:	,	,			
	Time 1)	./.	./.	./.	./.	min:s
15	Premature end of test Final occurrence of burning at the	,	,	,	,	
	specimen 1)	./.	./.	./.	./.	min:s
16	Time of eventually end of test 1)	./.	./.	./.	./.	min:s
	After flame 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⁾ flame length	./. ./.	./. ./.	.J.	./.	
21				./.	./.	cm
22	Afterglow after end of test Time 1)	./. ./.	./. ./.	./. ./.	./.	
23	Number of specimen	./.	./. ./.	./. ./.	./. ./.	min:s
	Place of appearance	./.	./.	 ./.	./. ./.	
24	Lower half of the specimen 2)	./.	./.	./.	./.	
25	Upper half of the specimen 2)	./.	./.	./.	.1.	
26	Front side of specimen 2)	./.	./.	./.	./.	
27	Back side of specimen 2)	./.	./.	./.	./.	
	Density of smoke		***************************************			
28	≤ 400 % * min	8	14	9		% * min
29 30	> 400 % * min ⁴⁾	./.	./.	./.	./.	% * min
30	Diagram: encl. no.	1	2	3		
	Residual lengths: individual value ³⁾	60	57	00		
31	Specimen 1 Specimen 2	62 59	57 62	66		cm
"	Specimen 3	65	59	59 67		cm
	Specimen 4	62	57	64		cm cm
32	Average value, individual test 3)	62	59	64		0111
33	Photo of specimen in enclosure no.	1	2	3		
34	Flue gas temperature	111	112	110		°C
35	Maximum of average value Time 1)	10:00	10:00	09:12		min:s
36	Diagram: encl. no.	1	2	3		
37	Remarks: - none -					
	cation of times: from the hearn of testing		2)			

indication of times: from the begin of testing procedure 2 checked off if applicable

indication of times. Here segment to stand processing processing 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.	#3656 weft / A	#3657 weft / B	#3658 warp / B		dimen					
1	residual length	62	59	64		cm					
2	max. smoke temperature	111	112	110		°C					
3	density of smoke - integral	8	14	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 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, 02.07.2020

clerk in charge:

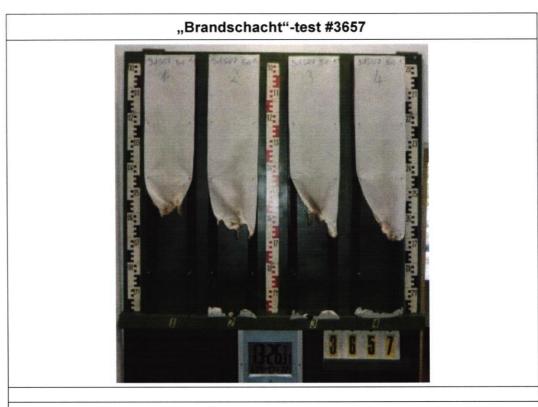
(Dipl.-Ing. (FH) Jürgen Hammer)

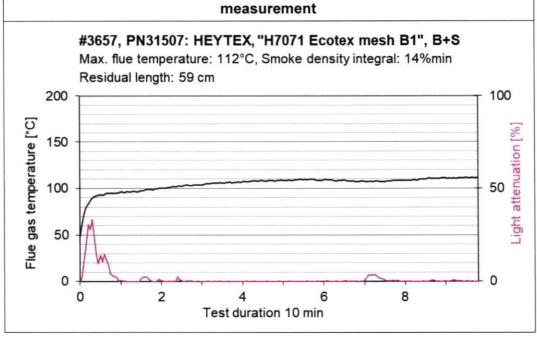
Head of the test laboratory:

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

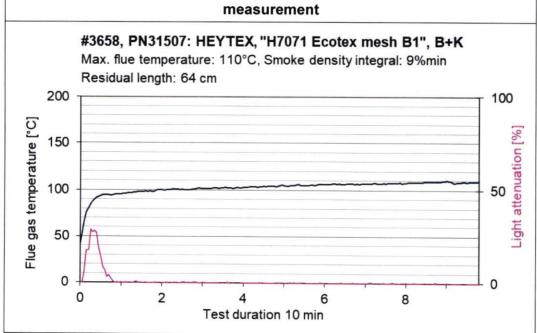


measurement #3656, PN31507: HEYTEX, "H7071 Ecotex mesh B1", A+S Max. flue temperature: 111°C, Smoke density integral: 8%min Residual length: 62 cm 200 100 Flue gas temperature [°C] Light attenuation [%] 150 100 50 50 0 0 2 6 8 Test duration 10 min









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 / Flaming side A and side B

Date of test

CW 27 in 2020

5. Results

	e	edge-	test				S	urface-test				_
1	2	3	4	5	6	1	2	3	4	5	6	Ë
1	1	1	1	1		2						s
./.	./.	./.	./.	./.		./.						s
10	9	11	11	11		6						cm
15	15	10	12	12		11						
17	16	10	12	12	-	13	_		-			s
./.	./.	./.	./.	./.	_	./.					-	s
./.	./.	./.	./.	./.		./.			-			s
moderate							moderate					
./.	./.	./.	./.	./.		./.						s
	./. 10 15 17 .//.	1 2 1 .//. 10 9 15 15 15 ./////.	1 2 3 1 1 1 1 .///. 10 9 11 15 15 10 17 16 10 .///. .///. mode	1 2 3 4 1 1 1 1 1///. 10 9 11 11 15 15 10 12 17 16 10 12 1///////	1 2 3 4 5 1 1 1 1 1 J. J. J. J. J. 10 9 11 11 11 15 15 10 12 12 17 16 10 12 12 J. J. J. J. J. J. J. J. J. J. moderate	1 2 3 4 5 6 1 1 1 1 1 J. J. J. J. J. 10 9 11 11 11 15 15 10 12 12 17 16 10 12 12 J. J. J. J. J. J. J. J. J. J. J. J. moderate	1 2 3 4 5 6 1 1 1 1 1 1 2 ./. ./. ./. ./. ./. ./. 10 9 11 11 11 6 15 15 10 12 12 11 17 16 10 12 12 13 ./. ./. ./. ./. ./. ./. ./. ./. ./. ./. ./. ./. ./. ./. ./. ./. ./. ./. ./. ./. ./. ./. ./. ./. ./. ./. ./. ./. ./. ./. ./. ./. ./. ./. ./. ./. ./. ./. ./. ./. ./. ./. ./. ./. ./. ./. ./. ./. ./. ./. ./. ./. ./. ./.	1 2 3 4 5 6 1 2 1 1 1 1 2 J. J. J. J. J. 10 9 11 11 11 6 15 15 10 12 12 11 17 16 10 12 12 13 J. J. J. J. J. J. J. J. J. J. J. J. J. J. moderate	1 2 3 4 5 6 1 2 3 1 1 1 1 1 2 J. J. J. J. J. J. 10 9 11 11 11 6 15 15 10 12 12 11 17 16 10 12 12 13 J. J. J. J. J. J. J. Moderate mode	1 2 3 4 5 6 1 2 3 4 1 1 1 1 1 2 10 9 11 11 11 6 15 15 10 12 12 11 17 16 10 12 12 13	1 2 3 4 5 6 1 2 3 4 5 1 1 1 1 1 2 J. J. J. J. J.	1 2 3 4 5 6 1 2 3 4 5 6 1 1 1 1 1 2 <t< td=""></t<>

PN 31507: additional tests		•	edge-	test			surface-test						
samples no.	1	2	3	4	5	6	1	2	3	4	5	6	Ë
ignition ¹⁾	1	1	1				2	2	2		-		s
reaching the mark of measurement ¹⁾²⁾	./.	./.	./.			-	./.	./.	./.				s
max. flame height	8	10	8		-	-	8	8	6				cm
time	7	15	15				15	15	14				
self cessation of the flames end of afterflame ¹⁾	9	17	15				17	16	15		-		s
end of glowing ¹⁾	./.	./.	./.				./.	./.	./.				s
flames were extinguished after ¹⁾	./.	./.	./.				./.	./.	./.				s
smoke development (visual)			mode	rate					mod	erate			
dropping of burning material during 20 s1)	./.	./.	./.				./.	./.	./.				s
Appearance after test: burned out till max. height 8 cm x width 4 cm													

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

7. Opinion concerning the dropping of burning material

The test for normal flammability shows no burning dripping material.

^{6.} Remarks and explanations to the testing procedure - none -