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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

www.reaction-to-fire.de

## TEST REPORT PZ-Hoch-161259

## 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	DICKSON COATINGS 415, avenue de Savoie	
	F-38111 Saint Clair de la Tour	
description of samples	polyester fabric with PVC-coating	(colour: white)
name of the material	"JET 530"	
sampling	by the company itself	
content of request	Proof of flammability to classify build "schwerentflammbar" according to D	•
validity of test report	31.10.2021	
result	The examined product meets the r "schwerentflammbare" (hardly fla according to DIN 4102, part 1 (May with distance of >40 mm to same	mmable) building materials ( 1998) , suspended freely or

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).

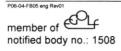
This test report does not replace an eventually necessary proof of applicability concerning building supervisory or building laws in the meaning of state building prescriptions. This has to be verified by:

- "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This test report must not be published and copied without preceding agreement of the test laboratory and if agreed, only during validity and unchanged concerning appearance and contents. \*) prolongation on request.







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

## PN 24483: "JET 530" colour: white

-polyester fabric with PVC-coating-

side A: structured / side B: smooth

characteristic values determined by the test laboratory:

area weight: about 586 g/m<sup>2</sup> thickness: about 0,48 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
#8522:	flaming side A in warp direction
#8523:	flaming side B in warp direction
#8524:	flaming side B in weft direction

- 4. Date of test CW 47 and CW 48 in 2016
- 5. <u>Results</u> The test has been examined according to DIN 4102 (Mai 1998)

1	Measurement	R	esult with	the teste	d specime	en	Dim.
ine D	Test number	#8522	#8523	#8524			
<b>—</b> —	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	<u>Maximum flame</u> height above bottom edge of the specimen Time <sup>1)</sup>	<b>40</b> 0:07	<b>70</b> 0:10	<b>60</b> 0:09			cm min:s
4	Burn through / melting Time <sup>1)</sup>	0:05	0:10	0:11			min:s
5	Observations on the back side of the specimen Flames / Glowing Time <sup>1)</sup> Change of color Time <sup>1)</sup>	.1. .1. .1. .1.	./. ./. ./. ./.	.1. .1. .1. .1.	.1. .1. .1. .1.	./. ./. ./. ./.	min:s min:s
7 8 9	Falling of burning droplets Start <sup>1)</sup> Extent sporatic falling of burning droplets <sup>2)</sup> continuous falling of burning droplets <sup>2)</sup>	.I. .I. .I. .I.	Л. Л. Л.	.J. .J. .J.	.]. .]. .]. .].	./. ./. ./.	min:s min:s
10 11 12	Falling of burning droplets Start <sup>1)</sup> Extent sporatic falling of burning droplets <sup>2)</sup> continuous falling of burning droplets <sup>2)</sup>	./. ./. ./.	./. ./. ./.	./. ./. ./.	./. ./. ./.	.1. .1. .1.	min:s
13	Afterflame time at the bottom of the sieve (max.)	./.	./.	./.	./.	./.	min:s

P06-04-FB05 eng Rev01



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	Measurement	Result with the tested specimen									
no.	Test number	#8522	#8523	#8524							
	flaming direction / side	warp / A	warp / B	weft / B							
14	Impairment of the burner by dropping or falling material: Time <sup>1)</sup>	./.	./.	./.	./.	./.	min:s				
15	Premature end of test Final occurance of burning at the specimen <sup>1)</sup>	./.	./.	./.	./.	./.	min:s				
16	Time of eventually end of test <sup>1)</sup>	./.	./.	./.	./.	./.	min:s				
17 18 19 20 21	Afterflame after end of test Time <sup>1)</sup> Number of specimen Front side of specimen <sup>2)</sup> Back side of specimen <sup>2)</sup> flame length	./. ./. ./. ./. ./.	.I. .I. .I. .I. .I.	.I. .I. .I. .I. .I.	.I. .I. .I. .I. .I.	./. ./. ./. ./.	min:s				
22 23 24 25 26 27	Afterglow after end of test Time <sup>1)</sup> Number of specimen <u>Place of appearance</u> Lower half of the specimen <sup>2)</sup> Upper half of the specimen <sup>2)</sup> Front side of specimen <sup>2)</sup> Back side of specimen <sup>2)</sup>	.I. .I. .I. .I. .I. .I. .I. .I.	.I. .I. .I. .I. .I. .I. .I. .I.	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 <sup>4)</sup> Diagram: encl. no.	22 ./. 1	29 ./. 2	53 ./. 3	 ./. 	 ./.	% * min % * min				
31	Residual lengths: individual value <sup>3)</sup> Specimen 1 Specimen 2 Specimen 3 Specimen 4	69 63 68 65	50 51 48 49	56 53 52 52	  		cm cm cm cm				
32	Average value, individual test <sup>3)</sup>	66	50	53							
33	and the second	1	2	3							
34		112	112	113			°C				
35	Time <sup>1)</sup>	09:48 1	09:27 2	09:54 3			min:s				
36	Diagram: encl. no. Remarks: - none -		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 more than 45 cm.

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

line no.	measurement	Result with the tested specimen									
line no	test-no.	#8522	#8523	#8524			dim ensi				
	flaming direction / side	warp / A	warp / B	weft / B							
1	residual length	66	50	53			cm				
2	max. smoke temperature	112	112	113			°C				
3	density of smoke - integral	22	29	34			%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, 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
  - 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, 29.11.2016

clerk in charge: (

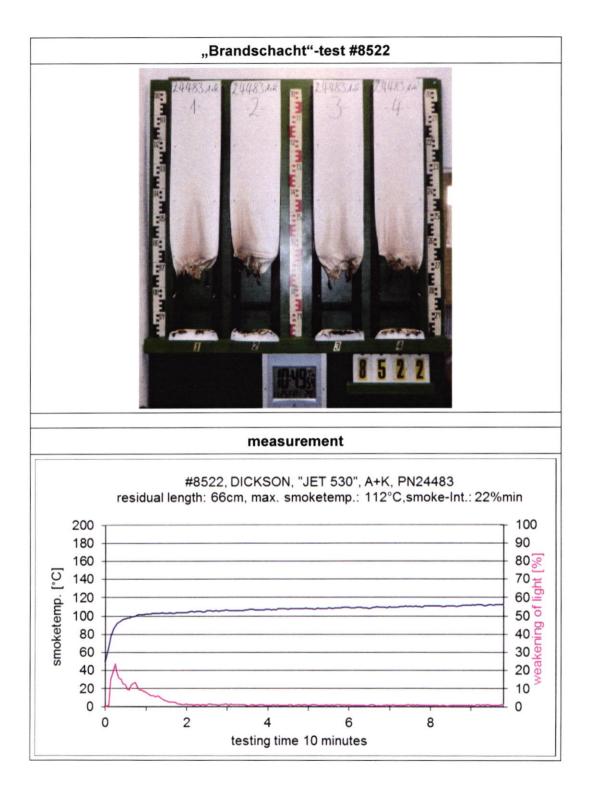
(Dipl.-Ing. (FH) Jürgen Hammer)



Head of the test laboratory:

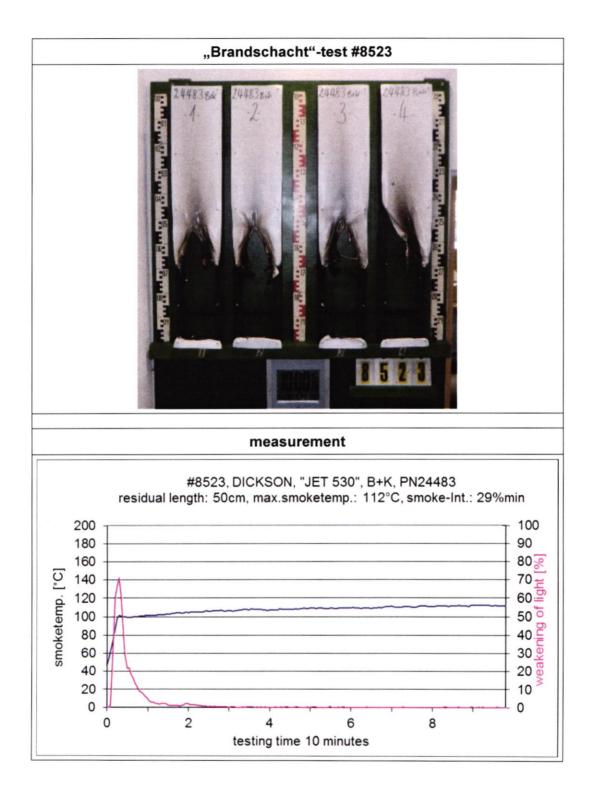
(Dipl.-Ing.(FH) Andreas Hoch)





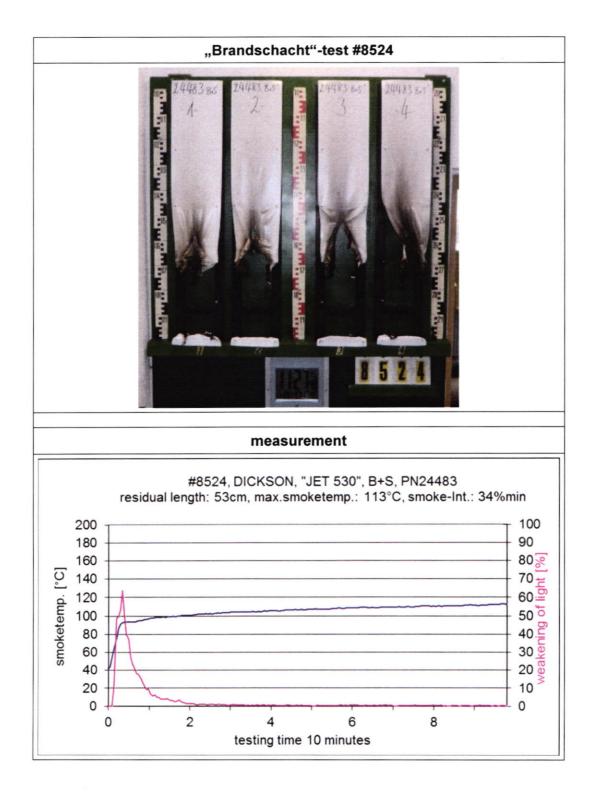


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# Test for normal flammability classifying B2 according to DIN 4102

- 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 / Flaming side A and side B

- 4. Date of test CW 47 in 2016
- 5. Results

PN 24483: flaming side A in weft direction	edge-test							surface-test						
samples no.	1	2	3	4	5	6	1	2	3	4	5	6	Dim	
ignition <sup>1)</sup>	1	1	1	1	1		2						s	
reaching the mark of measurement <sup>1)2)</sup>	-/-	-/-	-/-	-/-	-/-		-/-						s	
max. flame height	13	10	11	11	11		11						cm	
time	13	12	13	15	15		15							
self cessation of the flames end of afterflame <sup>1)</sup>	14	13	15	16	16		15						s	
end of glowing <sup>1)</sup>	-/-	-/-	-/-	-/-	-/-		17						s	
smoke development (visual)	very heavy very hea									neavy	1			
dropping of burning material during 20 s <sup>1)</sup>	-/-	-/-	-/-	-/-	-/-								s	
Appearance after test: burned out till max. height 11 cm x width 2 cm.														

PN 24483: additional tests	edge-test							surface-test							
samples no.	1	2	3	4	5	6	1	2	3	4	5	6	Din		
ignition <sup>1)</sup>	1	1	1				2	2	2				s		
reaching the mark of measurement <sup>1)2)</sup>	-/-	-/-	-/-				-/-	-/-	-/-				s		
max. flame height	13	12	12				13	10	10				cm		
time	12	13	13				15	15	15						
self cessation of the flames end of afterflame <sup>1)</sup>	13	21	25		、		15	15	15				s		
end of glowing <sup>1)</sup>	-/-	-/-	-/-				17	-/-	17				s		
smoke development (visual)	very heavy very heavy														
dropping of burning material during 20 s1)	-/-	-/-	-/-				-/-	-/-	-/-				s		
dropping of burning material during 20 s <sup>1</sup> )							-/-	-/-	-/-						

Appearance after test: burned out till max. height 11 cm x width 2 cm

<sup>1)</sup> time mentioned from the beginning of the test <sup>2)</sup> during 20 Sec -/- n

-/- 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.