

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-161060

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

<b>company</b>	<b>Edmund Bell &amp; Company Limited</b> Unit E1 A, Kingsway Business Park John Dunlop Drive, Kingsway  <b>GB - Rochdale, OL16 4NG</b> <b>ENGLAND</b>
<b>description of samples</b>	beige fabric of polyester with a black middle layer
<b>name of the material</b>	„6904 Venus“
<b>sampling</b>	by the company itself
<b>content of request</b>	Proof of flammability to classify building materials to class B1 ("schwerentflammbar") according to DIN 4102, part 1
<b>validity of test report</b>	30.09.2021
<b>result</b>	<b>The examined product meets the requirements of class B1 for hardly flammable ("schwerentflammbare") building materials according to DIN 4102, pt. 1 (May 1998), suspended freely or with distance of &gt;40 mm to same or other plain materials.</b>

This test report includes 5 pages and 3 enclosures.

Remark: If the building material mentioned above is not used as a product according to MBO § 2, Abs. 9, Ziffer 1, 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 as defined by 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 as defined by State Building Prescriptions. This has to be certified instead 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 irregular building products for the required proofs of applicability.

Without written consent of the test laboratory, this test report may only be published or duplicated during its denoted period of validity, providing that no changes to appearance or content are made.

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

### **PN 24249 „6904 Venus“**

beige fabric consisting of 100% polyester with a black middle layer  
Side A and side B are equal

characteristic values determined by the test laboratory:

area weight: about 248 g/m<sup>2</sup>      thickness: about 0,5 mm

The testing laboratory is not provided with further details concerning the 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

#8346:      PN 24249 flaming side A in warp direction

#8347:      PN 24249 flaming side B in weft direction

## **4. Date of test** CW 40 in 2016

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

line no.	Measurement	Result with the tested specimen				Dim.
		#8346	#8347	---	---	
	Test number	#8346	#8347	---	---	--
	flaming direction	warp	weft	---	---	--
	side	A	B	---	---	--
1	<u>Number of specimen arrangement</u> acc. to. DIN 4102/T15, schedule 1	1	1	---	---	--
2	<u>Maximum flame height above bottom</u> <u>edge of specimen</u>	40	50			cm
3	Time <sup>1)</sup>	0:07	0:05	---	---	min:s
4	<u>Burn-through / melting</u> Time <sup>1)</sup>	./.	./.	---	---	min:s
5	<u>Observations on the back side of</u> <u>specimen</u> Flames / Glowing Time <sup>1)</sup>	./.	./.	---	---	min:s
6	Change of colour Time <sup>1)</sup>	./.	./.	---	---	min:s
7	<u>Falling of burning droplets</u> Start <sup>1)</sup>	./.	./.	---	---	min:s
8	<u>Extent</u>			---	---	
9	sporadic falling of burning droplets <sup>2)</sup> continuous falling of burning droplets <sup>2)</sup>	./.	./.	---	---	min:s
10	<u>Falling of burning parts</u> Start <sup>1)</sup>	./.	./.	---	---	min:s
11	<u>Extent</u>	./.	./.	---	---	
12	sporadic falling of burning parts <sup>2)</sup> continuous falling of burning parts <sup>2)</sup>	./.	./.	---	---	
13	<u>Burning duration at sieve plate (max.)</u>	./.	./.	---	---	min:s
14	<u>Impairment of burner by dropping or</u> <u>falling material:</u> Time <sup>1)</sup>	./.	./.	---	---	min:s
15	<u>Premature end of test</u> Final occurrence of burning at the specimen <sup>1)</sup>	./.	./.	---	---	min:s
16	Time of eventually end of test <sup>1)</sup>	./.	./.	---	---	min:s
17	<u>Afterburning after end of test</u> Time <sup>1)</sup>	./.	./.	---	---	min:s
18	Number of specimen	./.	./.	---	---	
19	Front side of specimen <sup>2)</sup>	./.	./.	---	---	
20	Rear side of specimen <sup>2)</sup>	./.	./.	---	---	
21	flame length	./.	./.	---	---	cm
22	<u>Afterglow after end of test</u> Time <sup>1)</sup>	./.	./.	---	---	min:s
23	Number of specimen <u>Place of appearance</u>	./.	./.	---	---	
24	Lower half of the specimen <sup>2)</sup>	./.	./.	---	---	
25	Upper half of the specimen <sup>2)</sup>	./.	./.	---	---	
26	Front side of specimen <sup>2)</sup>	./.	./.	---	---	
27	Rear side of specimen <sup>2)</sup>	./.	./.	---	---	