

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-180767

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	GF General Formulations GmbH Hansestraße 105 D-51149 Köln
description of samples	white polymer self-adhesive foil consisting of PVC in a nominal thickness of 90µ
name of the material	„Concept E285“
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	30.06.2023
result	The examined product with an area weight of 188 g/m² meets affixed on metallic surfaces with a density of ≥ 5.890 kg/m³, a melting point of ≥ 1000 °C and a thickness of $\geq 0,6$ mm the requirements of class B1 for “schwerentflammbare” (hardly flammable) building materials according to DIN 4102, part 1 (May 1998).

This test report includes 4 pages and 5 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This test report must not be published and copied without preceding agreement of the test laboratory and if agreed, only during validity and unchanged concerning appearance and contents.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 27514: „Concept E285“

- white polymer self-adhesive foil consisting of PVC - nominal thickness 90µ

characteristic values determined by the test laboratory:

whole thickness including protection film: about 0,35 mm

whole area weight including protection film: about 337 g/m²

thickness of self-adhesive foil: about 0,16 mm

area weight of self-adhesive foil: about 188 g/m²

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 the dimensions 1000 mm height and 190 mm width were cut out from the material for fire testing. The self-adhesive foil was affix on steel panel with a thickness of 0,88 mm. The samples were kept in climate chamber 23/50 until they reached constant weight.

3. Arrangement of samples

#1403: flaming in machine direction
#1404: flaming in transverse direction
#1412: flaming in machine direction
#1413: flaming in machine direction

4. Date of test CW 28 in 2018

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

line no.	Measurement	Result with the tested specimen				Dim.
		#1403	#1404	#1412	#1413	
	Test number	#1403	#1404	#1412	#1413	
	flaming direction	machine	transverse	machine	machine	
1	<u>Number of specimen arrangement</u> acc. to. DIN 4102/T15, schedule 1	7	7	7	7	
2	<u>Maximum flame height above bottom</u> edge of the specimen	80	70	70	70	cm
3	Time ¹⁾	1:17	1:06	0:35	0:38	min:s
4	<u>Burn through / melting</u> Time ¹⁾	0:40	0:38	0:42	0:47	min:s
	<u>Observations on the back side of the specimen</u>					
5	Flames / Glowing Time ¹⁾	./.	./.	./.	./.	min:s
6	Change of colour Time ¹⁾	./.	./.	./.	./.	min:s
7	<u>Falling of burning droplets</u> Start ¹⁾	./.	./.	./.	./.	min:s
8	<u>Extent</u> sporadic falling of burning droplets ²⁾	./.	./.	./.	./.	
9	continuous falling of burning droplets ²⁾	./.	./.	./.	./.	min:s