

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-221034

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	Neschen Coating GmbH Hans-Neschen-Straße 1 D-31675 Bückeburg
description of samples	translucent, monomer soft pvc film with self-adhesive on one side
name of the material	„filmolux easy clear sand“
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	31.10.2027
result	The examined products meet the requirements of class B1 for “schwerentflammbare” (hardly flammable) building materials according to DIN 4102, part 1 (May 1998) , if glued on metallic substrates with a density of $\geq 2.025 \text{ kg/m}^3$, a melting point of $\geq 500^\circ\text{C}$ and a thickness of $\geq 0,8\text{mm}$.

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This test report must not be published and copied without preceding agreement of the test laboratory and if agreed, only during validity and unchanged concerning appearance and contents.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 35921:** „filmolux easy clear sand“
-translucent, monomer soft pvc film with self-adhesive on one side-
characteristic values determined by the test laboratory:
whole thickness: about 0,18 mm
thickness of self-adhesive foil: about 0,06 mm
area weight of self-adhesive foil: about 132 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

The samples were kept in climate chamber 23/50 until they reached constant weight. The self-adhesive foil was glued on aluminium panels with a thickness of about 1,0 mm, according to DIN 4102-16: 2015-09, point 4.4, d, II.

3. Arrangement of samples mounting: self-adhesive foil glued on aluminium panels

- #5852: flaming in transverse direction
#5853: flaming in machine direction
#5860: flaming in machine direction
#5861: flaming in machine direction

4. Date of test CW 46 in 2022

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

line no.	Measurement	Result with the tested specimen					Dim.
	Test number	#5852	#5853	#5860	#5861	---	
	flamed direction	transv.	machine	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	70	70	70	70	---	cm
3	Time ¹⁾	0:47	1:06	1:00	1:05	---	min:s
4	<u>Burn through / melting</u> Time ¹⁾	./.	./.	./.	./.	./.	min:s
5	<u>Observations on the back side of the specimen</u> 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
10	<u>Falling of burning droplets</u> Start ¹⁾	./.	./.	./.	./.	./.	min:s
11	<u>Extent</u> sporadic falling of burning droplets ²⁾	./.	./.	./.	./.	./.	
12	continuous falling of burning droplets ²⁾	./.	./.	./.	./.	./.	