

Report of the classification of the reaction to fire behaviour

No. 231002303-3.1 dated 28.01.2025

English version

Sponsor

GRAFITYP Selfadhesive Products N.V.
Centrum Zuid 1539
3530 Houthalen
Belgium

Order: Classification of the reaction to fire behaviour according to
DIN EN 13501-1

Date of order: 26.08.2024

Name of the classified building product:

Self-adhesive film of product line "GEF print media"

This report determines the classification of the above-mentioned building product in compliance with the procedure specified in DIN EN 13501-1:2019-05.

1 Description of the building product

Self-adhesive films of product line "GEF print media"

This product line includes the following self-adhesive films.

- "GEF 112 RPE PVC Free wh glo rem"
Film: white, glossy PVC-free Polyolefin-film.
Adhesive: transparent, removable, pressure-sensitive, water-based acrylate-adhesive.
Release liner: double-sided, PE-coated paper
 - Total thickness - film, adhesive, release liner: appr. 260 μm
 - Total weight per unit area - film, adhesive, release liner: appr. 260 g/m^2
 - Thickness film: appr. 100 μm
 - Total weight per unit area - film, adhesive: appr. 109 g/m^2
 - Weight per unit area release liner: appr. 145 g/m^2
- "GEF 116 HT GEF Mat High TACK"
Film: white, mat, PVC-free Polyolefin-film.
Adhesive: grey, highly adhesive, pressure sensitive, water-based acrylate-adhesive.
Release liner: clay-coated paper
 - Total thickness - film, adhesive, release liner: appr. 260 μm
 - Total weight per unit area - film, adhesive, release liner: appr. 260 g/m^2
 - Thickness film: appr. 100 μm
 - Total weight per unit area - film, adhesive: appr. 115 g/m^2
 - Weight per unit area release liner: appr. 135 g/m^2
- "GEFx114R gloss REM grey x"
Film: white, glossy PVC-free Polyolefin-film.
Adhesive: grey, removable, pressure sensitive, water-based acrylate-adhesive
Release liner: clay-coated paper with air ducts which give the film an „AIR ESCAPE-effect“.
 - Total thickness - film, adhesive, release liner: appr. 260 μm
 - Total weight per unit area - film, adhesive, release liner: appr. 260 g/m^2
 - Thickness film: appr. 100 μm
 - Total weight per unit area - film, adhesive: appr. 119 g/m^2
 - Weight per unit area release liner: appr. 135 g/m^2

2 Test reports and test results which form the basis of the classification

2.1 Test reports

Name of the laboratory	Sponsor	Number of the test report	Test method
MPA NRW	GRAFITYP Selfadhesive Products N.V. Centrum Zuid 1539 3530 Houthalen, Belgium	231002303-1 dated 28.01.2025	DIN EN 13823*
MPA NRW	GRAFITYP Selfadhesive Products N.V. Centrum Zuid 1539 3530 Houthalen, Belgium	231002303-2 dated 28.01.2025	DIN EN ISO 11925-2*

* In accordance with the annex to the part-accreditation-certificate D-PL-11142-01-01, the procedure is included in the scope of the flexible field of application (category 3) of the testing body's accreditation according to DIN EN ISO/IEC 17025:2018.

2.2 Rest results

Tested material: "GEF 112 RPE PVC Free wh glo rem"

Test procedure	Number of tests	Parameter	Test results
DIN EN 13823	3	FIGRA _{0,2 MJ} (W/s)	86
		FIGRA _{0,4 MJ} (W/s)	60
		THR _{600s} (MJ)	1,0
		LFS	< edge
DIN EN 13823	3	SMOGRA (m ² /s ²)	0
		TSP _{600s} (m ²)	26
DIN EN 13823	3	Duration of flaming droplets/particles (s)	0
DIN EN ISO 11925-2	12	F _s (mm)	≤ 150
Flame impingement: 30 s		Flaming droplets/particles	no

Tested material: "GEF 116 HT GEF Mat High TACK"

Test procedure	Number of tests	Parameter	Test results
DIN EN 13823	3	FIGRA _{0,2 MJ} (W/s)	92
		FIGRA _{0,4 MJ} (W/s)	74
		THR _{600s} (MJ)	1,3
		LFS	< edge
		SMOGRA (m ² /s ²)	0
		TSP _{600s} (m ²)	28
		Duration of flaming droplets/particles (s)	0
DIN EN ISO 11925-2 Flame impingement: 30 s	12	F _s (mm)	≤ 150
		Flaming droplets/particles	no

Tested material: "GEFx114R gloss REM grey x"

Test procedure	Number of tests	Parameter	Test results
DIN EN 13823	3	FIGRA _{0,2 MJ} (W/s)	42
		FIGRA _{0,4 MJ} (W/s)	31
		THR _{600s} (MJ)	1,0
		LFS	< edge
		SMOGRA (m ² /s ²)	0
		TSP _{600s} (m ²)	22
		Duration of flaming droplets/particles (s)	0
DIN EN ISO 11925-2 Flame impingement: 30 s	12	F _s (mm)	≤ 150
		Flaming droplets/particles	no

3 Classification and direct field of application

3.1 Reference

The classification was carried out in accordance with clauses 11 and 14.1 of the standard DIN EN 13501-1:2019-05.

3.2 Classification

The tested material in relation to its fire behaviour is classified as: **B**
 The additional classification regarding the smoke production is: **s1**
 The additional classification regarding flaming droplets / particles is: **d0**

This results in a classification of the reaction to fire behaviour of the tested material:

Fire behaviour	Smoke production	Flaming droplets/particles
B	s1	d0

i.e. **B- s1, d0**

3.3 Field of product application

The classification is solely valid for the products described in clause 1, glued onto class A1 or A2-s1, d0 substrates as well as metal substrates with a melting point of ≥ 1000 °C in accordance with DIN EN 13501-1. These substrates must have a thickness of $\geq 0,8$ mm and a raw density of ≥ 5887 kg/m³.

4 Restrictions

This classification report does not replace a type approval or product certification. This classification report written in English language is issued additionally to the report written in German language with the same report number. In case of doubt the German version is solely valid. This classification report is only valid in combination with the German version of the report.

Erwitte, 28.01.2025
 On behalf



B. Sc. Markus Albat
 Administrator who authorised this classification



Dipl.-Ing. Olaf Rickert
 Administrator who carried out this classification

Date of issue of this English version: 13.02.2025

