

# Report of the classification of the reaction to fire behaviour

**No. 230010206-3**

**issued 06.11.2015**

**English version**

**Sponsor**

Hanita Europa GmbH  
Kupferstr. 1

65428 Rüsselsheim  
GERMANY

**Order**

Reaction to fire classification according to DIN EN 13501-1

**Date of order:**

25.08.2015

**Name of the classified building product:**

Safety- / security films with the general designation „SafetyZone“.

For detailed product designations see annex 1.

This report determines the classification of the above-mentioned building product in accordance with the method specified in DIN EN 13501-1 “Classification of building products and building types with regard to their reaction to fire – part 1: classification with results from tests with regard to the reaction to fire of building products; German version EN 13501-1:2007+A1:2009”, Edition 2010.

## 1. Description of the building product

Self-adhesive, clear transparent films made of polyester for flat glass.

Thickness range: 100 µm to 300 µm

Weight per unit area: approx. 165 g/m<sup>2</sup> to approx. 470 g/m<sup>2</sup>.

## 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 reports	Test method
MPA NRW	Hanita Europa GmbH Kupferstr. 1 65428 Rüsselsheim GERMANY	230010206-1 of 06.11.2015	DIN EN 13823
MPA NRW	Hanita Europa GmbH Kupferstr. 1 65428 Rüsselsheim GERMANY	230010206-2 of 06.11.2015	DIN EN ISO 11925-2

### 2.2 Test results

Test method	Number of tests	Parameter	Test results	
			Continuous parameter average values	Discrete parameter
DIN EN 13823	4	FIGRA <sub>0,2</sub> (W/s)	31.3	--
		FIGRA <sub>0,4</sub> (W/s)	31.3	--
		THR <sub>600s</sub> (MJ)	1.6	--
		LFS < outer edge	--	yes
		SMOGRA (m <sup>2</sup> /s)	3.0	--
		TSP <sub>600s</sub> (m <sup>2</sup> )	45.0	--
		Flaming droplets / particles (s)	0	--

Test method	Number of tests	Parameter	Test results	
			Continuous parameter average values	Continuous parameter average values
DIN EN ISO 11925-2	12 x K and 12 x F	F <sub>S</sub> ≤ 150 mm Flaming droplets / particles	-- --	yes no

Remark: K = Tested with flames exposed to the edge, F = tested with flames exposed to the surface

### 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: 2010.

#### 3.2 Classification

The classification assigned to the material with regard to its reaction to fire is: **B**

The additional classification with regard to smoke production is: **s1**

The additional classification with regard to flaming droplets / particles is: **d0**

This results in the following reaction to fire classification of the material:

Reaction to fire	Smoke production	Flaming droplets/particles
<b>B</b>	<b>s1</b>	<b>d0</b>

i.e. **B – s1, d0**

#### 3.3 Field of application of the product

The classification is solely valid for the products described in clause 1, glued onto substrates of glass. Furthermore, the classification is only valid when the receipt of the products is identical to the products which were tested in the tests that form the basis of the classification.

### 4. Restrictions

This classification report does not replace any type approval or certification of the product.

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.

Erwitte, 06.11.2015

Im Auftrag



Dipl.-Ing. Rademacher

Leiter der Prüfstelle



Date of issue of this English version: 10 November 2015



The following products are covered by the classification specified in classification report no. 230010206-3 of 06.11.2015 due to their thickness and their weight per unit area as well as their composition.

- 4 mil Clear (Item-no. R12306T PS)
- 4 mil Anti-Graffiti (Item-no. R12301G PS)
- 4 mil Clear Xtra (Item-no. R12100X PS)
- PolyZone 4 mil Clear / Xtra (Item-no. R12306P / R1210XP PS)
- 6 mil Anti-Graffiti universal (Item-no. R173G2X PS)
- PolyZone 6 mil Anti-Graffiti (Item-no. R1731XP PS)
- 5 mil matte (Item-no. R14811PS)
- 7 mil Clear (Item-no. R19801T PS)
- 7 mil Clear Xtra (Item-no. R19600X)
- 8 mil Clear (Item-no. R22301T PS)
- 11 mil Clear (Item-no. R29805T PS)
- 12 mil Clear (Item-no. R32303T PS)
- 12 mil matte (Item-no. R32311C PS)

Notice: The details to the thickness, to the weight per unit area and to the composition of the above-mentioned products have not been checked by the testing laboratory. The compliance with the specific details specified in clause 1 in the classification report is decisive for the classification.

**Date of issue of this annex: 10.11.2015**