

# **Report of the classification of the reaction to fire performance**

**No. 231001555**

**dated 03.03.2022**

**English version**

## **Sponsor**

Hyundai L&C Europe GmbH  
Düsseldorfer Str. 13

65760 Eschborn

## **Order**

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

## **Date of order**

21 Febr 2022

## **Name of the classified building product:**

Acrylic solid surface sheeting named "Hanex" in all colours

This report determines the classification of the above-mentioned building product in conformity with the procedure as given in DIN EN 13501 (German version of EN 13501-1: 2019)

## 1. Description of the building product

Homogenous acrylic solid surface sheeting in all colours.

Range of thickness: 6 mm - 12 mm

Weight per unit area of a 6 mm thick sheet: about 10.7 kg/m<sup>2</sup>

Weight per unit area of a 12 mm thick sheet: about 21.0 kg/m<sup>2</sup>

Average raw density: about 1767 kg/m<sup>3</sup>

Concerning the field of application, see chapter 3.

## 2. Test reports and test results supporting the classification

### 2.1 Test reports

Test laboratory	Sponsor	Test report no.	Test procedure
MPA NRW	Information on the sponsor is stored in the files of MPA NRW	230006022-A dated 09.07.2007	DIN EN 13823
MPA NRW	Information on the sponsor is stored in the files of MPA NRW	230006022-B dated 10.07.2007	DIN EN ISO 11925-2

### 2.2 Test results

Test procedure	No. of tests performed	Parameter	Test results	
			Mean values	Fulfilled
DIN EN 13823	3	FIGRA <sub>0,2</sub> (W/s)	40.7	--
		THR <sub>600s</sub> (MJ)	4.2	--
		LFS < edge	--	Yes
		SMOGR <sub>A</sub> (m <sup>2</sup> /s)	1.7	--
		TSP <sub>600s</sub> (m <sup>2</sup> )	12.3	--
		Flaming droplets/particles (s)	0	--

Test procedure	No. of tests performed	Parameter	Test results	
			Continuous parameter Mean values	Compliance parameter
DIN EN ISO 11925-2	6 x K and 6 x F	$F_s \leq 150$ mm Flaming droplets/particles	-- --	Yes No

Remark: K = tested with edge exposure, F = tested with surface exposure

**Remark:** The procedure of testing for getting the above mentioned test results, which are basis for the classification is, described in the above-mentioned test reports. The above-mentioned results of the test procedure according to DIN EN 13823 refer to tests performed with the worst variant of the product as described in chapter 1 concerning the reaction to fire behaviour, which was determined in the course of a test programme.

### 3. Classification and direct field of application

#### 3.1 Reference

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

#### 3.2 Classification

The tested product in relation to its reaction to fire behaviour is classified as: **B**

The additional classification in relation to smoke production is: **s1**

The additional classification in relation to flaming droplets/particles is: **d0**

The classification of the reaction to fire performance is therefore:

Fire behaviour	Smoke production	Flaming droplets/ particles
<b>B</b>	<b>s1</b>	<b>d0</b>

i. e. **B – s1, d0**

### 3.3 Field of application

The classification is valid solely for the product as described in clause 1 with sheet thicknesses in the range from 6 mm to 12 mm, glued with „Terokal-625“ two components PU adhesive by Henkel KGaA or similar adhesive (application amount in wet condition up to 600 g/m<sup>2</sup>) on substrates made of gypsum plaster board or other substrates classified as A1 or A2 according to DIN EN 13501-1. The minimum thickness of these substrates has to be 6 mm and the minimum density has to be 700 kg/m<sup>3</sup>.

### 4. Restrictions

This classification report does not represent a 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 no. In case of doubt, the German version is solely valid.

Erwitte, 03.03.2022  
On behalf



Dipl.-Ing. Kühnen  
Deputy Head of the testing body



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