

## TEST REPORT

Order no: 14.02.2021

Signature : SL/Z-141/DIN4102-B2/182a/2021

Police, 19.03.2021

### Test methods:

1. DIN 4102-1:1998-05 Fire behaviour of building materials and building components - Part 1: Building materials; concepts, requirements and tests.
2. DIN 53438-2:1984-06 Testing of combustible materials; response to ignition by a small flame; edge ignition.
3. DIN 53438-3:1984-06 Testing of combustible materials; response to ignition by a small flame; surface ignition.

**Content of request:** Research according to DIN 4102-1:1998-05 - building class B2

**Sponsor:** TOPlast, a.s  
Werferova 1  
040 11 Košice  
Slovakia

**Material:** Recycled PP/PE

**Composition:** Recycling plastic profiles, used to outdoor benches, seatings, terrace, fencing, playgrounds

**Manufacturer/supplier:** TOPlast, a.s  
Werferova 1  
040 11 Košice

**Assessment:** The material fulfils the requirements of the building class B2 acc. to DIN 4102-1:1998-05, class K1 acc. to DIN 53438-2:1984-06 and class F1 acc. to DIN 53438-3:1984-06.

**Validity of test report:** 19.03.2026

**The reprint and the copying:** only with the agreement of TOPlast, a.s

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Report applies only to the sample tested and is not necessarily indicative of the qualities of apparently identical or similar products.

**Content of test report:** three pages with signature and numbers.

**1. Test results class B2 according DIN 4102-1**
**1.1. Edge ignition - DIN 53438-2**

Exposure time of pilot burner flame - 15 s

Time from start of test.

Name of measured quantity	Unit	Specimen no				
		1	2	3	4	5
Specimen thickness	mm	36,0	36,0	36,0	36,0	36,0
Ignition time	s	5	5	5	5	4
Flame height 150 mm within 20 s	YES/NO	NO	NO	NO	NO	NO
Max. flame height	cm	1	1	1	1	1
Time	s	-	-	-	-	-
Extinction time	s	19	-	19	17	19
Flaming particles or droplets	YES/NO	NO	NO	NO	NO	NO
Ignition of paper	YES/NO	NO	NO	NO	NO	NO
Smoke development (visual impression)	-	lack of smoke				

The material fulfils the requirements of the building class K1 acc. to DIN 53438-2:1984-06

*Remarks:* none

**1.2. Surface ignition - DIN 53438-3**

Exposure time of pilot burner flame - 15 s

Time from start of test.

Name of measured quantity	Unit	Specimen no				
		1	2	3	4	5
Specimen thickness	mm	50,0	50,0	50,0	50,0	50,0
Ignition time	s	-	-	-	-	-
Flame height 150 mm within 20 s	YES/NO	NO	NO	NO	NO	NO
Max. flame height	cm	0	0	0	0	0
Time	s	-	-	-	-	-
Extinction time	s	-	-	-	-	-
Flaming particles or droplets	YES/NO	NO	NO	NO	NO	NO
Ignition of paper	YES/NO	NO	NO	NO	NO	NO
Smoke development (visual impression)	-	lack of smoke				

The material fulfils the requirements of the building class F1 acc. to DIN 53438-3:1984-06.

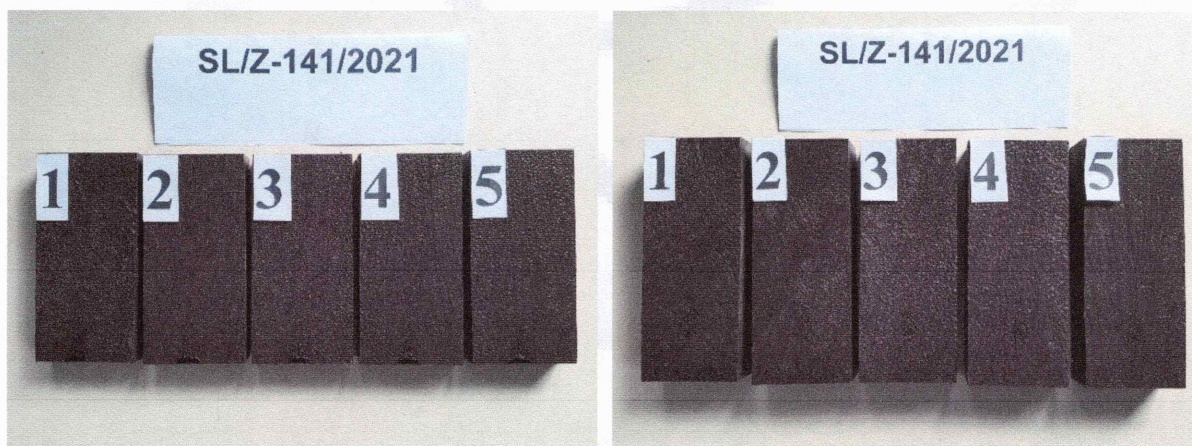
*Remarks:* none


Fig. 1. Appearance of the samples after the tests

## 2. Assessment

The determined test results show that the material fulfils the requirements of the building class B2 according to DIN 4102-1:1998-05.

In combination with other materials (for example coatings, deposits) the burning behaviour could be influenced unfavourable so that the classification above is not valid any longer. According to DIN 4102-1:1998-05 the burning behaviour in combination with other materials has to be tested separately.

This report does not determine admission to the use of the product, when tested material is used as a construction product within the meaning of terrestrial technical requirements. In the process of construction supervision test results can be the basis for a preliminary assessment of the compatibility/suitability.

## 3. Remaining required information

**Date of receipt of samples:** 02.03.2021

**Sampling:** Sponsor took and delivered samples.

**Sample description:** plastic material of the dark brown colour, density of 0,83-0,90 g/cm<sup>3</sup>. 5 samples dimensions of 230x105-120x50 mm, 5 samples dimensions of 190x107-128x36 mm, 5 samples dimensions of 230x107x27 mm and 5 samples dimensions of 190x63x49 mm were delivered by the sponsor. Laboratory prepared samples for the tests.



**Conditioning of specimens:** testing after storing 14 days under climatic - temperature of 23±2°C, and relative humidity of 50±5 % (DIN 50014-23/50-2).

### Declarations:

1. The test results relate to the behaviour of the test specimens under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the products in use.
2. The information provided on the first page of the report concerning the scope of research and identification of the tested object/objects were provided by the Sponsor.

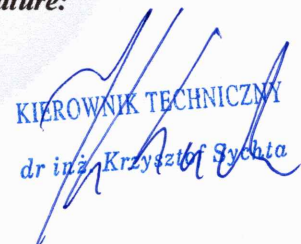
### Operator:

*mgr Nataliia Kalishchuk*



### Signature:

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dr inż. Krzysztof Sychta

Date and place of test - 17.03.2021 , Police