



**Notified Body**  
**ID No 1526**

**TÜV EESTI OÜ**  
**Testing Laboratory**  
Vana-Narva mnt. 24B  
74114 Maardu

Lab:  
e-mail: test@tuev-nord.ee

tel 60 75 918

Tel 63 79 306  
fax 63 79 601



Accredited  
L020  
EVS EN ISO/IEC 17025

## **TÜV Eesti OÜ Testing Laboratory**

### **Test Report No. 040-12TM**

EN ISO 11925-2: 2010

Reaction To Fire Tests - Ignitability Of Building Products Subjected To  
Direct Impingement Of Flame – Part 2: Single-flame Source Test

# **KEDEL**

**ECO-FRIENDLY PLASTIC PRODUCTS**

# Contents

<b>Test Details.....</b>	<b>3</b>
<b>Description of Test Specimens.....</b>	<b>4</b>
<b>Test Results .....</b>	<b>4</b>
Table 1.....	5
Table 2.....	5
Photos of specimens.....	6
Classification.....	7
<b>Signatories.....</b>	<b>7</b>

## Test Details

---

### Purpose of test

To determine the performance of specimens of a product when they are subjected to the conditions of the test specified in EN ISO 11925-2:2010 "Reaction to Fire tests - Ignitability Of Building Products Subjected to Direct Impingement of Flame – Part 2: Single Flame Source Test". The test was performed in accordance with the procedure specified in EN ISO 11925-2:2010 Reaction to Fire Tests - Ignitability of Building Products subjected to direct impingement of flame – Part 2: Single Flame Source Test, and this report should be read in conjunction with that EN ISO Standard.

### Scope of test

EN ISO 11925-2:2010 specifies a method of test for determining the ignitability of building products by direct small flame impingement under zero impressed irradiance using specimens tested in a vertical orientation.

### EGOLF

Certain aspects of some fire test specifications are open to different interpretations. EGOLF has identified a number of such areas and has agreed Recommendations which define common agreement of interpretations between fire test laboratories which are members of the Groups. Where such Recommendations are applicable to this test they have been followed.

### Instruction to test

The test was conducted on the 14.09.2012. According to provided specimens the provisions in annex A of the standard were not required.

### Provision of test specimens

The specimens were supplied by the sponsor of the test. **TÜV Eesti OÜ Testing Laboratory** was not involved in any selection or sampling procedure.

### Conditioning of specimens

The specimens were received on the 16.08.2012. Prior to test the specimens were stored for 28 days in a standard atmosphere as defined in EN 13238:2010 Conditioning Procedures and General Rules for selection of substrates until constant mass was achieved. Data about conditioning of the specimens is brought out in Table 1.

### Intended application

Product is used for garden furniture, fence modules, terrace subconstructions, flower and compost boxes, garbage container sheds, goods pallets, sandboxes, horse bays, farms, etc.

### Substrate

The specimens were tested without a substrate present.

### Flame application time

The flame was applied for 15 seconds to factory cut surface.

## Description of Test Specimens

---

The description of the specimens given below has been prepared from information provided by the sponsor of the test. All values quoted are nominal, unless tolerances are given.

Keddeck planks are made of household plastic waste. Colour of the product is grey. Specimen dimensions are 90x250x20 mm. Density of tested material was 837 kg/m<sup>3</sup>. Material is considered homogeneous in content.

## Test Results

---

**Number of specimens tested** Six specimens thickness 20 mm were tested, each of which were subjected to surface exposure to flame.

**Applicability of test results** The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test, they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

The test results relate only to the specimens of the product in the form in which they were tested. Small differences in the composition or thickness of the product may significantly affect the performance during the test and may therefore invalidate the test results. Care should be taken to ensure that any product which is supplied or used is fully represented by the specimens which were tested.

The test results for the individual specimens, together with observations made during the test and comments on any difficulties encountered during the test are given in Table 2.

**On each set of six specimens which were tested, the flame tip did not reach a distance of 150mm before the end of the test.**

**Validity** The specification and interpretation of fire test methods are the subject of ongoing development and refinement. Changes in associated legislation may also occur. For these reasons it is recommended that the relevance of test reports over five years old should be considered by the user. The laboratory that issued the report will be able to offer, on behalf of the legal owner, a review of the procedures adopted for a particular test to ensure that they are

consistent with current practices, and if required may endorse the test report.

This report may only be reproduced in full. Extracts or abridgements shall not be published without permission of **TÜV Eesti OÜ Testing Laboratory**

The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use

**Table 1**

**Conditioning of specimens**

Specimen No.	1	2	3	4	5	6
Weight t (g)	387,9	365,6	365,2	383,6	367,2	393,5
Weight t+24 (g)	387,9	365,6	365,2	383,6	367,2	393,5

Conditioning room temperature  $23 \pm 2$  °C; relative humidity  $50 \pm 5$  %

**Table 2**

**Test Flame Application Position - Surface Of Front Face**

Specimen No.	Ignition Yes/No	Time from start of test for flame tip to reach 150mm (seconds)	Extent of Flame Spread (mm)	Flaming Debris	Glowing	Extent of Damaged Area (mm)	
						Height	Width
1	No	-	-	-	-	55	15
2	No	-	-	-	-	38	11
3	No	-	-	-	-	41	12
4	No	-	-	-	-	38	12
5	No	-	-	-	-	43	14
6	No	-	-	-	-	43	12

Test room temperature  $22$  °C; relative humidity  $55$  %.

## Photos of specimens

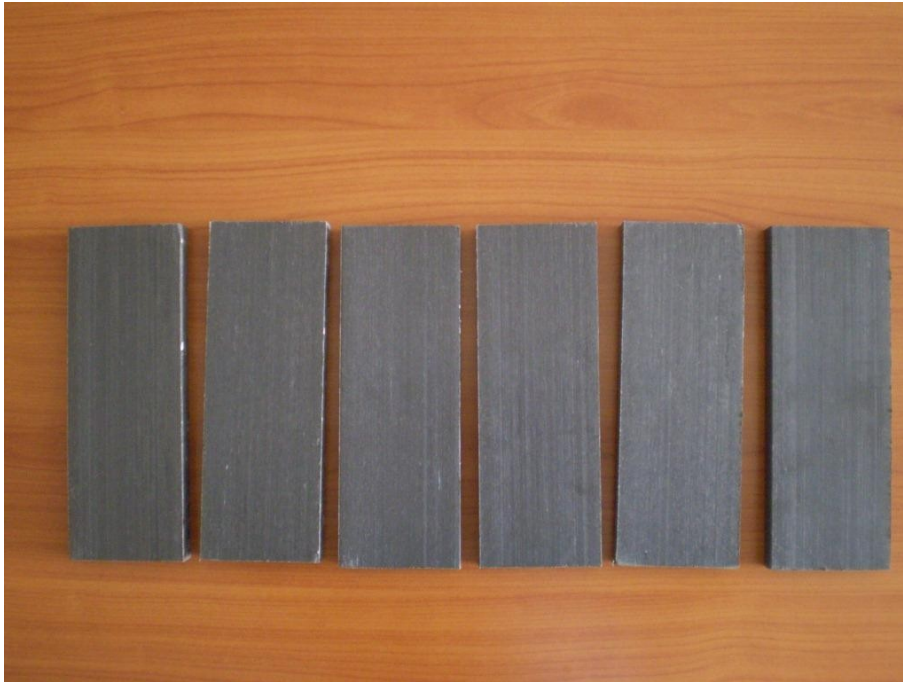


Photo 1. Specimens before the test

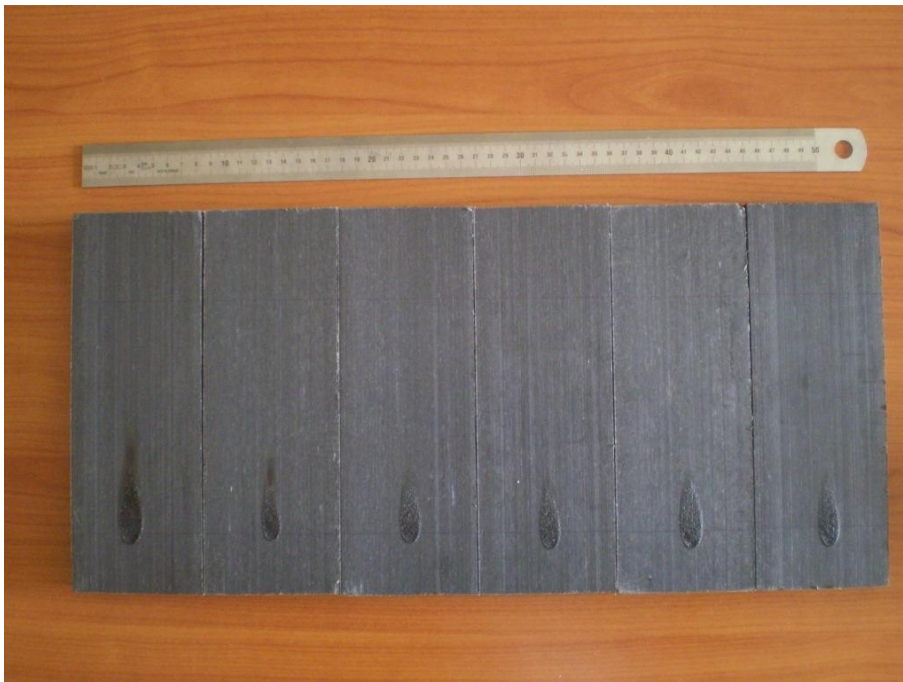


Photo 2. Specimens after the test

## Classification

According to test results the reaction to fire classification of the product is class E. Classification is made according to standard EN 13501-1.

## Signatories

Prepared Julija Želobetski Test expert	
Authorized Fred Haas * Head of the Testing Laboratory	

\* For and on behalf of **TÜV Eesti OÜ Testing Laboratory**

*Report Issued: 19.12.12*

This version of the report has been produced from a .pdf format electronic file that has been provided by **TÜV Eesti OÜ Testing Laboratory** to the sponsor of the report and must only be reproduced in full. Extracts or abridgements of reports must not be published without permission of **TÜV Eesti OÜ Testing Laboratory**