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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

Sponsored By
Rexest Grupp OÜ
Mäo Keskus 72751
Järva County, Estonia

Contents

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 at the request of **Rexest Grupp OÜ**, the sponsor of the test. 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.

The specimens were produced by Rexest Grupp OÜ, Mäo Keskus 72751, Järva County, Estonia.

Plastrex planks are made of household plastic waste. Colour of the product is gray. Specimen dimensions are 90x250x20 mm. Density of tested specimens material was 837 kg/m3. 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.

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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±2 °C; relative humidity 50±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

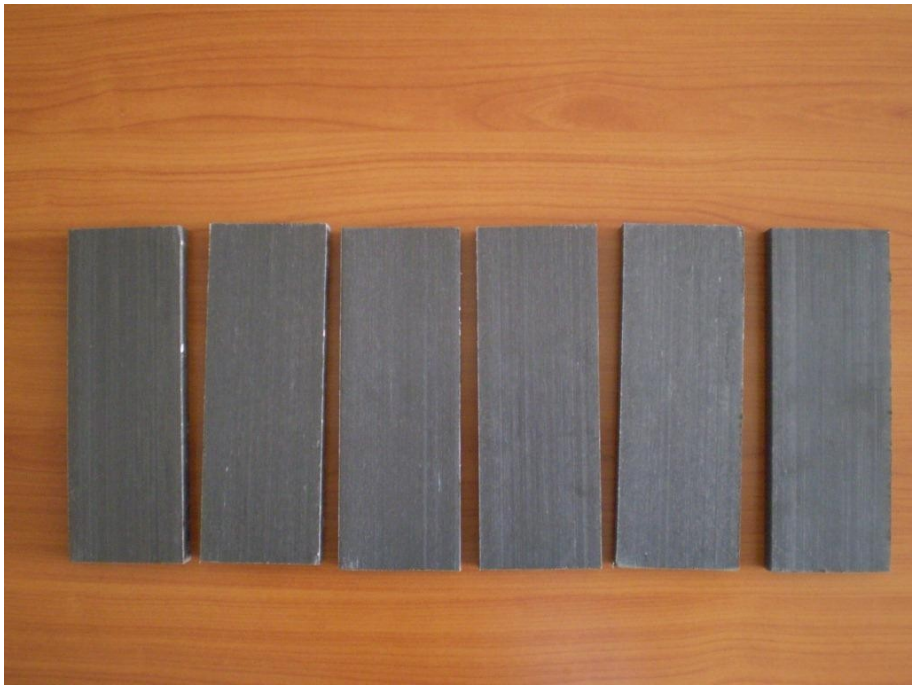

Photo 1. Specimens before the test

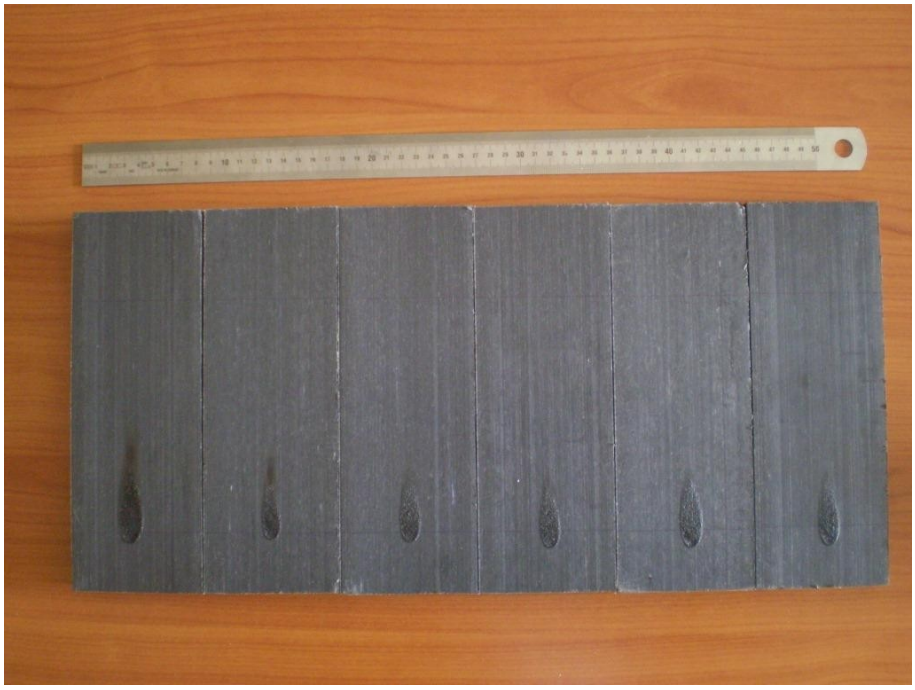

Photo 2. Specimens after the test

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