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Efectis Nederland report

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Reaction to fire testing of Fiberplast flooring
panels; Series Classic: Types; Coffee Brown and
Natural Brown
Ignitability test according to EN-ISO 11925-2:2002

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Product identification:

Fiberplast flooring panels; Series Classic: Types; Coffee Brown and Natural Brown

Abstract:

Determination of the ignitability properties of the product by direct small flame impingement according to EN-ISO 11925-2: 2002 with the objective the reaction to fire classification according to EN 13501-1.

Intended application:

The product will be used as floor covering.

Manufacturer/importer:

Fiberplast BV
De Roef 7a
NL - 9206 AK DRACHTEN
The Netherlands

Product description:

According to the sponsor the product is Series Classic: Types; Coffee Brown and Natural Brown

Structural extruded profile made from a mixture of recycled wood and plastics, composed of:

- 50-53 % recycled wood dust
- 42-45 % recycled HDPE (high density polyurethane)
- 2.5-4% additives: UV stabilizer, AO stabilizer, colour pigments
- Lamella thickness 5 mm. Open void in middle of profile
- Colours: Coffee Brown and Natural Brown

The total product has a thickness of approx. 25 mm
Mass per unit area approx. 16.9 kg/m²

Samples:

Sampling procedure: The samples were submitted by the sponsor.
Age: According sponsor produced 26th May 2009.
Date of receipt: 22nd September 2009

Specimen preparation:

Substrate used: 6 mm fibre cement board non-combustible (ISO 390 and class A1/A2 according to EN 13238).
Conditioning: Prior to the examinations, the specimens were conditioned over a period of at least 1 week at a temperature of (23 ± 2) °C and a relative humidity of (50 ± 5) % according to § 4.1 of EN 13238:2001.

Examination:

Number of tests: A total of 9 single ignitability tests were carried out according to EN-ISO 11925-2:2002.

Deviations from the test method: None

Harmonised Product Standard: At the time of examination of the product, the sponsor was not aware of a related existing Harmonised Product Standard.

Date of examination: 20th October and 3rd November 2009

The results are given in Table 1.

Table 1: Ignitability classification parameter results

Flame application time: 15 s					
Sample	Ignition of sample {Y=Yes/N=No}	Maximum flame height [mm]	t ₁₅₀ [s]	Afterburning time [s]	Ignition of filter paper {Y=Yes/N=No}
Surface ignition					
1LCB	Y	25	∞ not reached	0	N
2LCB	Y	25		0	N
3LCB	Y	25		0	N
4LCB	Y	25		0	N
5LCB	Y	25		0	N
6LCB	Y	25		0	N
1LNB	Y	25		0	N
2LNB	Y	25		0	N
3LNB	Y	25		0	N
Average		25			
Classification parameters		150 mm not reached within 20 s			N

LCB = Longitudinal direction, Coffee Brown - LNB = Longitudinal direction, Natural Brown (Longitudinal direction is worst case)

Observations of physical behaviour of the test specimen: None

Conclusions:

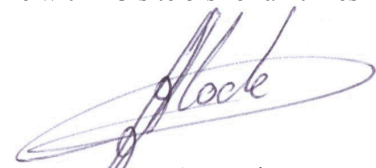
A formal classification is to be assessed in accordance with EN 13501-1, "Fire classification of construction products and building elements – Part 1: Classification using data from reaction to fire tests".

Remarks:

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.

Regarding the precision of the test method, following Annex B of EN-ISO 11925-2 the absolute repeatability/reproducibility for this test method is estimated to lie within 3 s to 5 s for all times measured.


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