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Efectis Nederland report

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Reaction to fire testing of Fiberplast flooring panels; Series Solid: Types Cedar Brown and Anthracite Grey.
Ignitability test according to EN-ISO 11925-2:2002

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Product identification:

Fiberplast flooring panels; Series Solid: Type Cedar Brown and Anthracite Grey

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
9206 AK Drachten
The Netherlands

Product description:

According to the sponsor the product is Series Solid: Type Cedar Brown and Anthracite Grey

Solid 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;
- Colours: Cedar brown and Anthracite grey

The total product has a thickness of approx. 19 mm

Mass per unit area approx. 21.8 kg/m²

Samples:

Sampling procedure: The samples were submitted by the sponsor.

Age: According sponsor produced 26th May 2009.

Date of receipt: 21st October 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: 2nd and 10th 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					
1LA	Y	25	∞ not reached	0	N
2LA	Y	25		0	N
3LA	Y	25		0	N
4LA	Y	25		0	N
5LA	Y	25		0	N
6LA	Y	25		0	N
1LCB	Y	25		0	N
2LCB	Y	25		0	N
3LCB	Y	25		0	N
Average		25			
Classification parameters		150 mm not reached within 20 s			N

LA = Longitudinal direction, Anthracite Grey - LCB = Longitudinal direction, Cedar Brown (Longitudinal direction is worst case)

Observations of physical behaviour of the test specimen: None of interest

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”.

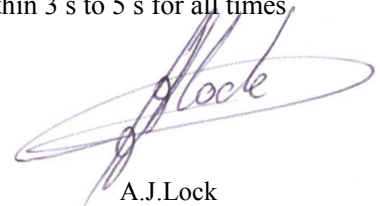
Remarks:

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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