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Test Report Nr 11264C
Translation of "Beproeversverslag Nr. 11264C"

Sponsor

DECEUNINCK N.V.
Bruggesteeweg 164
B-8830 HOOGLEDE-GITS
BELGIUM

Material

PVC window profile

Trade Name

Zendow (code 0003)

Name of the manufacturer

DECEUNINCK N.V.
Bruggesteeweg 164
B-8830 HOOGLEDE-GITS
BELGIUM

Nature of the tests

Tests concerning the reaction to fire of this material according to the Royal decree of 7 July 1994 amended by Royal Decree of 19 December 1997 and based on the standard NF P 92-501 :1975.

This report consists of

5 pages



FOUNDING
MEMBER



Dit verslag mag slechts woordelijk en in zijn geheel voor publicitaire doeleinden worden gebruikt. - Teksten, bestemd voor publiciteit en waarin dit verslag wordt vermeld dienen voorafgaandelijk aan onze goedkeuring te worden onderworpen.

1. THE REACTION TO FIRE

The tests concerning the reaction to fire tests is to determine the behaviour in a fire of the material concerning the contribution of this material to the development of a starting fire.

This behaviour is characterised by test results, only of a conventional nature, so that these test results do not have an "absolute value".

2. DESCRIPTION OF THE TEST METHOD

At the request of the sponsor, the test and the classification are carried out in accordance with "Annex 5 : Reaction to fire of materials – of the Royal Decree of 7 July 1994 defining the basic requirements for prevention of fire and explosion to which new buildings shall fulfil – modified by Royal decree of 19 December 1997".

For this purpose the test method according to the french standard "NF P 92-501 (1975) : Essais de réaction au feu des matériaux – Essai par rayonnement".



3. TEST SPECIMEN

The firm Deceuninck N.V., Bruggesteeweg 164, B-8830 Hoogdele-Gits, Belgium, has provided the laboratory with a series of 5 samples of 0,30 x 0,40 m of a material.

Date of reception : 2004-03-15.

Sampling : by the sponsor

Trade name : Zendow (code 0003)

Description of the material :

This description is based on information given by the sponsor. All values are nominal, except for measured values, which are identified as MV. The measured values are mentioned in addition to the nominal values only if they differ more than 5% from these nominal values.

The tested material consists of a frame profile in hard PVC. The PVC has got the reference: Decom 1012/003. The material has got a nominal thickness of 70 mm, a nominal width of 64 mm and a weight of 1300 g/m. The wall thickness of the material is 2,8 mm.

4. CONDITIONING

Before testing, the samples have been conditioned according to the specifications of the standard mentioned above.

5. **RESULTS**

The tests have been carried out on : 2004-04-13.

a) **Observations :**

| Test.Nr. | 1 | 2 | 3 | 4 |
|--|------|------|------|------|
| Exposed surface | | | | |
| t_1 : time of ignition (s) * | 152 | 198 | 214 | 58 |
| t_2 : time of extinction (s) * | 282 | 458 | 252 | 66 |
| Non-exposed surface | | | | |
| t'_1 : time of ignition (s) * | No | No | No | No |
| t'_2 : time of extinction (s) * | No | No | No | No |
| P_1 : weight before test (g) | 2645 | 2640 | 2647 | 2643 |
| P_2 : weight after test (g) | 2615 | 2506 | 2533 | 2512 |
| S : area destroyed (cm ²) | 250 | 250 | 250 | 250 |
| t_f : start of melting (s) | (1) | (1) | (1) | (1) |
| t_o : appearance of opening (s) | (1) | (1) | (1) | (1) |
| H : max. flame height (cm) | 26 | 20 | 26 | 26 |
| F : Σh_i (cm) | 191 | 154 | 158 | 157 |
| S' : area under the Δt -curve (°C.min) | < 0 | < 0 | < 0 | < 0 |
| * $\tau = 0$ = start of the test | | | | |

(1) The material does not melt, no aperture appears during the test procedure.

b) **Criteria:**

| Test Nr. | 1 | 2 | 3 | 4 | Average |
|---|------|------|------|------|---------|
| l : ignition-index | 0,44 | 0,34 | 0,31 | 1,15 | 0,56 |
| s : development-index | 1,36 | 1,1 | 1,13 | 1,12 | 1,12 |
| h : maximum height of the flame-index | 1,30 | 1,00 | 1,30 | 1,30 | 1,25 |
| c : combustibility-index | < 1 | < 1 | < 1 | < 1 | < 1 |



6. CONCLUSION


The test results relate only to the behaviour of the product under the particular conditions of the test. These test results are not intended to be the sole criterion for assessing the potential fire hazard of the material in use.

The test results are only valid for the specimens of the product as they have been tested. Small differences in the composition or thickness of the specimen may significantly affect the performance during the test and may therefore invalidate the test results.

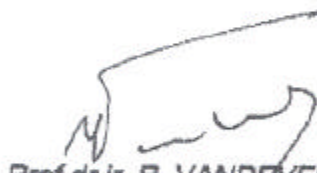
In order to obtain test results which are representative for the product which is supplied or used, the conformity between the test specimen and the product should be assured. This is the role of the manufacturer and/or the supplier.

The PVC profile '**Zendow (code 0003)**', as described in § 3 and under the conditions of the test, is classified in class **A3**, following the Royal Decree of 7 July 1994 – Annex 5 : reaction to fire of materials – modified by Royal Decree of 19 December 1997.

Ghent, 08 JULI 2004
Translation made, 08 JULI 2004



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Project manager



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NF P 92-501 En A nr6.doc

