

## **Test Report Nr 11264C**

**Translation of "Beproeversverslag Nr. 11264C"**

### **Sponsor**

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

### **Material**

PVC window profile

### **Trade Name**

Zendow (code 0003)

### **Name of the manufacturer**

DECEUNINCK N.V.  
Bruggesteeweg 164  
B-8830 HOOGLADE-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

## 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., Bruggesteenvweg 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
<u>Exposed surface</u>				
$t_1$ : time of ignition (s) *	152	198	214	58
$t_2$ : time of extinction (s) *	282	458	252	66
<u>Non-exposed surface</u>				
$t'_1$ : 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 <sup>2</sup> )	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
$F = \Sigma h_i$ (cm)	191	154	158	157
$S^1$ : area under the $\Delta t$ -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
$I$ : 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.*

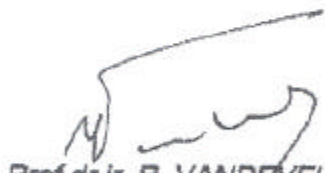
*In order to obtain test results which are representative for the product which is supplied or used, the conformity between the test specimen and the product should be assured. This is the role of the manufacturer and/or the supplier.*

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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NF P 92-501 En A nr6.doc

