

## **Test Report Nr 11253**

*Translation of Beproeivingsverslag Nr 11253*

### **Sponsor**

DUMAPLAST N.V.  
Vliegplein 41  
B-9990 MALDEGEM  
BELGIUM

### **Material**

PVC Profiles

### **Trade Name**

Printed cladding 25 cm

### **Name of the manufacturer**

DUMAPLAST N.V.  
Vliegplein 41  
B-9990 MALDEGEM  
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 BS 476 - Part 7 (1997).

### **This report consists of**

5 pages

1 annex including surface spread of flame p (mm) as a function of time



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Warmteoverdracht*

1. THE REACTION TO FIRE

The aim of 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 British Standard "BS 476 – Part 7 – 1997 – Method for classification of the surface spread of flame of products" was used.



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### 3. TEST SPECIMEN

The firm Dumaplast N.V., Vliegplein 41, B-9990 Maldegem, Belgium, provided the laboratory with a series of 7 samples of 0,265 m x 0,900 m.

Date of reception : 2004-03-01

Sampling : by the sponsor

Trade name : **Printed cladding 25 cm**

Description :

*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 PVC profiles made out of PVC, stabilizer, titanium dioxide TiO<sub>2</sub>, chalk CaCO<sub>3</sub>. The printed front side has got a coating of 2 ink layers and 1 lacquer. This coating has got a thickness of 8-12µm, a surface mass of 5 g/m<sup>2</sup> per layer and has a pink colour.

Section of the tested product see annex 2

	Nominal values (*)	Measured values (**)
Thickness (mm)	10	10
Wall thickness (mm)	0,5-0,7	0,5
Average surface mass (g/m <sup>2</sup> )	1520	1532

### 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: 2004-03-15.

a) Observations:

Test Nr	1	2	3	4	5	6
Spread of flame after 1'30" (mm)	30	30	30	30	30	50
Spread of flame after 10' (mm)	30	30	30	30	30	50
Extinction (s)	60	60	60	60	60	62

Annex 1: Surface spread of flame p (mm) as a function of time  $\tau$ .

b) Results:

$V_m$  after 1'30" : 50 mm  
 $V_i$  after 1'30" : 30 mm  
 $V_m$  after 10' : 50 mm  
 $V_i$  after 10' : 30 mm



## 6. CONCLUSION

*The test results relate only to the behaviour of the product under the particular conditions of the test. These 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 ' **Printed cladding 25 cm** ', as described in § 3 and under the conditions of the test, **is classified in class A1** according to the Royal Decree of 7 July 1994 – Annex 5 : reaction to fire of materials – modified by Royal Decree of 19 December 1997, and is **classified in class 1**, according to the British Standard BS 476 - Part 7 – 1997.



ing. F. DUTRIEUE  
Project Manager

Ghent, 06 APR. 2004

Translation made, 06 APR. 2004



Prof. dr. ir. P. VANDEVELDE  
Director

BS 476 part 7 En nr8.doc





Surface spread of flame p (mm) as a function of time  $\tau$ .

Test Specimen Nr	1		2		3		4		5		6	
	min	sec	min	sec	min	sec	min	sec	min	sec	min	sec
50 mm		(*)		(*)		(*)		(*)		(*)	1	02
100 mm												(*)
150 mm												
200 mm												
250 mm												
300 mm												
350 mm												
400 mm												
450 mm												
500 mm												
550 mm												
600 mm												
650 mm												
700 mm												
750 mm												
800 mm												
850 mm												
885 mm												

(\*) not reached



