

## Test Report Nr 11958

### Sponsor

EMULCO-LABORATORIES N.V.  
Belgicastraat 3  
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BELGIUM

### Material

MDF board

### Trade Name

SPF Flame Retardant

### Name of the manufacturer

PT. SUMATERA PRIMA FIBREBOARD  
Km. 28 Desa Tanjung Seteko  
Inderalaya - OKI  
SUMATERA SELATAN  
INDONESIA

### 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

6 pages with 1 annex

## 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.



## 5. RESULTS

The tests have been carried out on: 2005-11-22.

### a) Observations:

Test Nr. 1-3: 3 mm

Test Nr. 4-6: 18 mm

Test Nr.	1	2	3	4	5	6
Spread of flame after 1'30" (mm)	40	40	40	40	40	50
Spread of flame after 10' (mm)	40	40	140	40	40	70
Extinction (s)	60 (*)	60 (*)	> 600	60 (*)	60 (*)	60 (*)

(\*) duration of the pilot burner

(\*\*) extinction at 60s, re-ignition at 236

Annex 1: Surface spread of flame as a function of time  $\tau$ .

### b) Results:

$V_m$  after 1'30" : 50 mm

$V_i$  after 1'30" : 40 mm

$V_m$  after 10' : 140 mm

$V_i$  after 10' : 70 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 MDF board '**SPF Flame Retardant**', 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, 08 DEC. 2005



Prof.dr.ir. P. VANDEVELDE  
Director

BS 476 part 7 WG 1E

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