

Zhangjiagang YiHua Plastics Co., Ltd.
Yangshe Town Industrial Development Zone Area
Zhangjiagang City, Jiangsu Province,
P.R. China

contact

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Date

12/01/11

TEST REPORT 11-003

Samples received:

Product name: VINYL PLANK (Click System)
Thickness: 5.0mm; density: 2010 kg/m³
Manufacturer: Zhangjiagang YiHua Plastics Co., Ltd
Received on 3/01/2011

Aim of the test : determination of the initial type testing of fire behaviour

Test conditions :

Standard: **EN ISO 9239-1 (2002)***

Method: Before the test the samples are not cleaned with a spray-extraction machine.
A floorcovering is **put (loose laid)** on a fibre cement board (Eflex). During the test, the specimen is irradiated by a gas radiator at an angle of 30°. A small flame is used to ignite the specimen. The specimen is ignited during 10 minutes. In case of inflammable specimens, the test lasts until the flame is extinguished, but 30 minutes at the most. The criterion is the burned length, from which the critical radiant flux is deduced using a calibration curve.

Number of tests: 4

Conditioning samples: 23 ± 2 °C and 50 ± 5 % R.H.

Classification according to EN 13501 –1 (2002)°

Classification	EN ISO 11925-2 (ignition time = 15 s)	EN ISO 9239-1 (test period = 30 min)
B _{fl}	F _s ≤ 150 mm in 20 s	Critical flux ≥ 8.0 kW/m ²
C _{fl}	F _s ≤ 150 mm in 20 s	Critical flux ≥ 4.5 kW/m ²
D _{fl}	F _s ≤ 150 mm in 20 s	Critical flux ≥ 3.0 kW/m ²
E _{fl}	F _s ≤ 150 mm in 20 s	No demand
F _{fl}	No demand	No demand

Additional classification smoke development according to EN 13501-1 (2002)°

Smoke development ≤ 750%.min	s1
Smoke development > 750%.min	s2

The tests were performed in week 2/2011

OBTAINED RESULTS

Sample	Burned length (mm)		
	after 10 min	after 20 min	after 30 min
Width	80	90	90
Length	160	190	190
Length	105	110	110
Length	130	140	140
Average (of length)	132	147	147

Sample	Burned length maximum (mm)	Extinction (s)	Critical Flux (kW/m ²)
Width	90	735	10.9
Length	190	747	9.5
Length	110	738	10.7
Length	140	744	10.3
Average (of length)	147	-	10.2

b) Smoke development:

Sample	Smoke development (%min)			Smoke development (%min)
	after 10 min	after 20 min	after 30 min	Maximum
Width	59	98	107	107
Length	116	148	149	149
Length	73	82	82	82
Length	86	110	110	110
Average (of length)	92	113	114	114

CLASSIFICATION

Since the radiation intensity is higher than 8.0 kW/m^2 and the smoke development is **lower** than 750 %min, the quality **VINYL PLANK (thickness: 5.0 mm, density: 2010 kg/m³)** meets the demands of **class B_{FL} s1** according to EN 13501-1°.

LIEDTS Eddy
Technician

i.o.
Didier Van Daele
Head of floorcovering/fire tests


Prof. Dr. Paul KIEKENS, dr. h. c.
Head of Department



Test report No. FCHL – 895/11

Customer:

Vertex Floors Limited
Room B n C, 15/F Hang Seng Causeway Bay Building,
28 Yee Wo Street, Causeway Bay.

Object of the test

DETERMINATION OF THE CONTENT OF FORMALDEHYDE

Date: 2011-01-12

Number of pages: 2

Number of annexes: 0

Copies: 2

Distribution list: 1 copy customer
(1x English version)

1 copy archive PCHL

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Ing. Jaromír Srba
the head of physical and chemical laboratory

1. OBJECT AND PURPOSE OF THE TEST:

The object of the test was the determination of the content of formaldehyde in the supplied samples of Vinyl Planks.

2. TEST SAMPLES:

~ sample codes	:	sample no. 112
~ sample name	:	Vinyl Plank (Click System)
~ manufacturer	:	Zhangjiagang Yihua Plastic Co., Ltd. Yangshe Town Industrial Development Zone Area, Zhangjiagang City, Jiangsu Province, P.R. China
~ quantity, size	:	2 pieces, (1207 x 190) mm
~ nominal thickness (mm)	:	5
~ density	:	2010±50 kg/m ³
~ date of production	:	unknown

3. RECEIPT OF SAMPLES:

~ date of reception	:	January 3. 2011
~ place of reception	:	VVÚD – FCHL
~ received	:	VVÚD; Ing. Srba
~ handed down	:	Zhangjiagang Yihua Plastic Co., Ltd. by post

4. TEST METHOD:

TP-VVÚD-2.64.001 (ČSN EN 717-1) – Determination of formaldehyde in test chamber of VVÚD

➤ volume of the chamber	0,225 m ³
➤ determination of emission value	by the acetylacetone method

Test method TP-VVÚD-2.64.001 is available in laboratory VVÚD.

Prepare test pieces in accordance with *ČSN EN 14342 article B1*

5. DATE OF TEST:

January 7. – 11. 2011

6. TEST RESULT:

emission value	<i>sample no. 112</i>	0,005 mg HCHO/m³ of air
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