



TEST REPORT

No. : JSNA175047076PCB

Date : Jun.23, 2017

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CUSTOMER NAME: CHANGZHOU LAMICRAFT CONSTRUCTIONS CO.,LTD
ADDRESS: TONGJIANG AVENUE N391-ROOM C502, XINBEI DISTRICT, CHANGZHOU, JIANGSU,CHINA

Sample Name SPC FLOORING
Material Vinyl
Manufacturer CHANGZHOU LAMICRAFT CONSTRUCTIONS CO.,LTD

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

Test Required Selected test(s) as requested by applicant
SGS Ref. No. GZIN170501174CCM , SL817082206435TX, CANMLC1709371501
Date of Receipt May.16, 2017
Testing Start Date May.16, 2017
Testing End Date Jun.07, 2017
Test result(s) For further details, please refer to the following page(s)
(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

***** To be continued*****

Signed for
SGS-CSTC Standards Technical
Services Co., Ltd. XM Branch

Civi Huang Authorized Signatory

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Sample Information:

Flooring, See the photographs.

Test Result(s):

No.	Test item(s)	Test method(s)	Test condition	Standard requirement(s) ISO 10582:2010	Test result(s)
1	Dimensional stability (see note 2)	Refer to ISO 23999:2008	Specimen: 240mm×178mm×4.0mm, 3pcs Condition: 23±2°C, 50±5%RH, 24h → 80±2°C, 360min → 23±2°C, 50±5%RH, 24h	Sheets and tiles (intended for heat welding): ≤0.4%; Tiles (intended for dry- joint laying): ≤0.25%.	X Direction: 0.05% Y Direction: -0.12%
2	Curling (see note 3)			Sheets and tiles (intended for heat welding): ≤8mm; Tiles (intended for dry- joint laying): ≤2mm.	-0.09mm
3	Residual indentation	ISO 24343- 1:2007	Specimen: 60mm×60mm×4.0mm, 3pcs Condition: 23±2°C, 50±5%RH, 24h → 500N, 150min → Recovery time: 150min	≤0.1mm	0.01mm
4	Effect of a castor chair	ISO 4918:2016	Cycles: 25000 Load: 90kg	After 25 000 cycles, no delamination shall occur. No disturbance to the surface other than a slight change in appearance	No visible damage
5	Colour Fastness To Light	ISO 105- B02:2014; Method 3	Use Xenon arc lamp, exposure cycle A1, no flip- flop mode was used.	6 minimum	After standard 6 grade bluewool: 6

***** To be continued*****



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No.	Test item(s)	Test method(s)	Test condition	Test result(s)
6	Burning cigarette test	EN 1399:1997 Method B	Condition: 23±2°C, 50±5%RH, 48h Light one end of a cigarette and draw air through it until 10 mm has been consumed. Place the cigarette(s) on the specimen(s), with full-length contact with the horizontal surface; The cigarettes shall be allowed to burn away for another 20 mm.	Rating 5: No visible change (See table 1)
7	Resistance to staining	ISO 26987:2008	Condition: 23±2°C, 50±5%RH, 24h The main duration of contact shall be 2h. If a stain appears on the test piece after 2h, a new test shall be conducted for a period of 30 min. Examine the residual staining.	Index 0: Not affected (See Annex A)
8	Slip resistance (oil-wet ramp test)	DIN 51130:2014-02	Specimen: 1220mm×178mm×4.0mm, 3pcs Condition: 23±2°C, 50±5%RH, 24h	Critical angle of inclination:10.6° Classification: R10 (See Annex B)
9	Wear resistance	EN 660-2:1999+ A1:2003 and EN 649:2011	See Annex C	Volume loss Fv=1.5mm ³ Wear group: T (See Annex C)
10	Migration of Certain Elements	With reference to EN 71-3:1994 + A1:2000 + AC: 2002	Condition: Analysis was performed by ICP-OES.	Not Detected (See Annex D)
11	CPSIA section 108 - Phthalates	With reference to CPSC-CH-C1001-09.3	Condition: Analysis was performed by GC-MS.	Not Detected (See Annex E)

Note: 1. Original sample B for Burning cigarette test only, and original sample A for the other test items.

2. All test specimens were cut from the original samples, see the photographs.
3. Dimensional stability, % = (Dimension before exposure to heat - Dimension after exposure to heat)/Dimension before exposure to heat × 100. Reference distance of X direction is 138mm.
4. Curling, mm = Dimension after exposure to heat - Dimension before exposure to heat.
5. Test items 4~5, 9~11 were carried out by SGS internal laboratories.

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Table 1: Presentation of results

Rating	Effect on surface of test piece
5	No visible change
4	Slight change of gloss only visible at certain viewing angles and/or slight brown stain
3	Moderate change of gloss and/or moderate brown stain
2	Severe brown mark, but no destruction of surface
1	Blistering and/or destruction of surface

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Annex A: Result of the staining resistance

No.	Stain agent	Contact time	Result	Contact time	Result
1	Acetone	2h	0	-	-
2	Coffee (120g coffee per litre of water)	2h	0	-	-
3	Sodium hydroxide 25% solution	2h	0	-	-
4	Hydrogen peroxide 30% solution	2h	0	-	-
5	Shoe Polish	2h	0	-	-

Expression of results:

Index	Effect of test after cleaning / abrasion
0	Not affected
1	Slight
2	Moderate
3	Severe

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Annex B

Slip resistance (oil-wet ramp test)

Test Method:

DIN 51130:2014-02 Testing of floor coverings - Determination of the anti-slip property - Workrooms and fields of activities with slip danger, walking method - Ramp test

Sample Description:

Flooring, three samples 1220mm×178mm×4.0mm form a testing surface of 1220mm×534mm×4.0mm, see the photo

Test Result:

Testing surface: see the photo

Testing direction: parallel to the length direction (X direction)

Test item(s)	Test result(s)	Classification
Slip resistance (oil-wet ramp test)	Critical angle of inclination:10.6°	R10

Appendix B1: Classification of oil-wet ramp test

Classification	Angle (degrees)
R9	6°≤X≤10°
R10	10°<X≤19°
R11	19°<X≤27°
R12	27°<X≤35°
R13	>35°

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Annex C

Wear resistance

Test Method:

EN 660-2:1999+ A1:2003 and EN 649:2011

Sample description: See the photo

Test condition:

Weigh the specimens to an accuracy of ± 0.1 mg after conditioning. Load each wheel with a weight of (1 ± 0.01) kg. The flow of abrasive is (21 ± 3) g/min. Abrade one specimen during 5000 revolutions, with a break for weighing after each cycle of 1000 revolutions, and then test the two remaining specimens. If, however, the first specimen is abraded through before 5000 revolutions, discard it and test the two remaining specimen in cycles of 200 revolutions stopping the test after 2000 revolutions or when the specimen is abraded through.

Calculate the average mass loss. F_m , in milligrams per 100 revolutions for each specimen as follows:

$$F_m = \frac{F_{tot}}{n} \times 100$$

Calculate the loss of volume for each specimen for 100 revolutions as follows:

$$F_v = \frac{F_m}{\rho}$$

Requirement of EN 649:2011:

Characteristic	Requirements for wear group			
	T	P	M	F
Volume loss $F_v(\text{mm}^3)/100\text{revolutions}$	$F_v \leq 2.0$	$2.0 < F_v \leq 4.0$	$4.0 < F_v \leq 7.5$	$7.5 < F_v \leq 15.0$

Test Result:

Test result	Wear group
$F_v = 1.5 \text{mm}^3/100\text{revolutions}$	T

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Annex D

Migration of Certain Elements

Test Method:

With reference to EN 71 Part 3:1994 (including amendment A1:2000/AC:2002) - Migration of Certain Elements

Sample description: See the photo

Test condition: Analysis was performed by ICP-OES

Test Result:

Test Item(s)	Limit	Unit	MDL	Result
Soluble Lead (Pb)	90	mg/kg	5	ND
Soluble Antimony (Sb)	60	mg/kg	5	ND
Soluble Arsenic (As)	25	mg/kg	2.5	ND
Soluble Barium (Ba)	1000	mg/kg	10	ND
Soluble Cadmium (Cd)	75	mg/kg	5	ND
Soluble Chromium (Cr)	60	mg/kg	5	ND
Soluble Mercury (Hg)	60	mg/kg	5	ND
Soluble Selenium (Se)	500	mg/kg	10	ND

Notes: (1) 1 mg/kg = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

(5) Results shown are of the adjusted analytical results.

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Annex E

CPSIA section 108 - Phthalates

Test Method:

With reference to CPSC-CH-C1001-09.3

Sample description: See the photo

Test condition: Analysis was performed by GC-MS

Test Result:

Test Item(s)	CAS NO	Permissible Limit	Unit	MDL	Result
Dibutyl Phthalate (DBP)	84-74-2	0.1	%(w/w)	0.005	ND
Benzylbutyl Phthalate (BBP)	85-68-7	0.1	%(w/w)	0.005	ND
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	0.1	%(w/w)	0.005	ND
Diisononyl Phthalate (DINP)	28553-12-0 / 68515-48-0	0.1	%(w/w)	0.005	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	0.1	%(w/w)	0.005	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 / 68515-49-1	0.1	%(w/w)	0.005	ND

Notes: (1) MDL = Method Detection Limit

(2) ND = Not Detected (< MDL)

(3) "-" = Not Regulated

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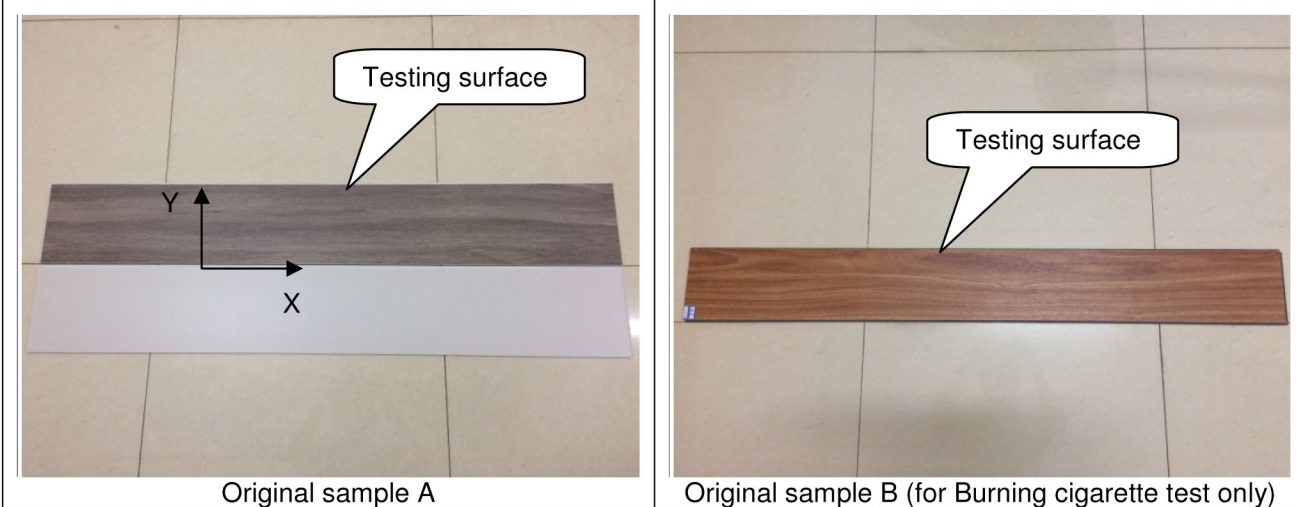
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Specimen photographs:



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