FOSHAN IFOLRONG PLASTIC MATERIAL MANUFACTURE CO.,LTD.
NO.21-2(F3). AREA D.LUBAO PARK.SANSHUI CENTER TECHNOLOGY ZONE,FOSHAN CITY,GUANGDONG PROVINCE, CHINA

Sample Description	:	PVC HETEROGENEOUS FLOORING
Client Reference Information	:	WOLFLOR
Manufacturer	:	FOSHAN IFOLRONG PLASTIC MATERIAL MANUFACTURE CO.,LTD.

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

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SGS Ref No.	:	SDFS2105003039FF; CAN21-083308, CAN21-086896, CAN21-100607
Sample Receiving Date	:	May 11, 2021
Test Performing Date	:	May 13, 2021 to Jun 21, 2021
Test Performed	:	Selected test(s) as requested by applicant
Test Result(s)	:	For further details, please refer to the following page(s)

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Shunde Branch

Peter Zhao
Authorized Signatory

SGS-CSTC Standards Technical Services Co., Ltd. Shunde Branch Hardware

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Test Result Summary

No.		Test item	Test(s) Requested	Result(s)	Comments
Part 1	1	Wear resistance	EN 660-2:1999+ A1:2003 & EN 649:2011	Refer to next page(s)	/
Part 2	1	Fire classification of construction products and building elements-Part 1: Classification using data from reaction to fire tests	EN 13501-1:2018	Classification: B_{fl}-s1	/
Part 3	1	Migration of Certain Elements	EN 71-3:2019	PASS	/
	2	Pentachlorophenol (PCP)	BS EN 14041:2004 Clause 4.2	See Results	/
	3	Volatile Organic Compounds (VOCs) Emissions	BS EN 14041:2018 Clause 4.3	See Results	/
	4	Formaldehyde Emission	EN 13986:2004+A1:2015	E1	/
	5	Formaldehyde Emission	BS EN 14041:2004 Clause 4.3	See Results	/
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Test Information:

Part 1:

Sample Description: See photo

1. Test item: Wear resistance

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

Test condition: Weigh the specimens to an accuracy of ±0.1mg 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. Fm, 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 Fv(mm^3)/100revolutions	Fv≤2.0	2.0＜Fv≤4.0	4.0＜Fv≤7.5	7.5＜Fv≤15.0

Test result:

Test result	Wear group
Fv=0.9mm^3/100revolutions	T

Note: All test specimens were cut from the sample.

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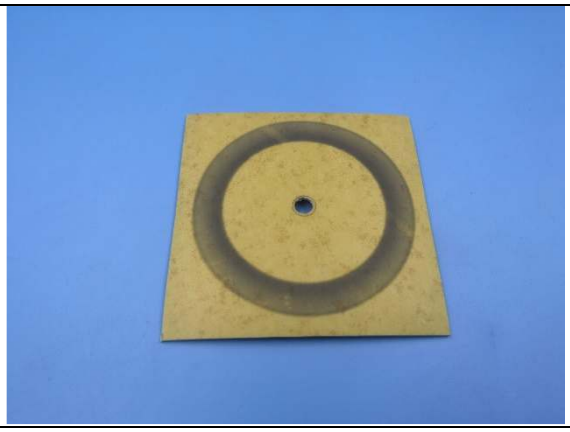
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Photo Appendix:

	
Original sample	After test

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Part 2 (SGS Ref. No.: SDFS2105003039FF)

Test Conducted:

This test is conducted as per EN 13501-1:2018 Fire classification of construction products and building elements-Part 1: Classification using data from reaction to fire tests.

And the test methods as following:

1. EN ISO 9239-1:2010 Reaction to fire tests for floorings-Part 1: Determination of the burning behaviour using a radiant heat source.
2. EN ISO 11925-2:2020 Reaction to fire tests-Ignitability of building products subjected to direct impingement of flame-Part 2: Single-flame source test.

Mounting and fixing (For EN ISO 9239-1:2010):

Fibre cement board meets the requirement of EN13501-1 of Class A2-s1,d0, with its density about 1800kg/m^3, thickness about 8mm, is as the substrate.

The specimens were fixed mechanically to the substrate.

Test Results:

Test method	Parameter	Number of tests	Results
EN ISO 9239-1:2010	The mean value for the critical heat flux (CHF) from the same orientation	3	8.4 kW/m^2
	Smoking measurement Integrated smoke value		98.31 %×min
	Comments and Observation		Charring
EN ISO 11925-2:2020 Exposure = 15 s	*F*s ≤ 150 mm within 20 s	6	Yes

Remark：

1). Above value is the mean value for the critical flux (CHF and/or HF-30) from the three same orientation specimens.

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Classification and direct field of application

This classification has been carried out in accordance with **EN 13501-1:2018**

Classification:

Fire behaviour		Smoke production	
B_{fl}	—	s	1

Remark:

The classes with their corresponding fire performance are given in Table 2.

Reaction to fire classification is based on the 7-step scale of $A1_{fl}$ to F_{fl}, where $A1_{fl}$ is good and F_{fl} is bad.

Statement:

The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

Warning:

This classification report does not represent type approval or certification of the product.

The test laboratory has, therefore, play no part in sampling the product for the test, although it holds appropriate references to the manufacturer's factory production control that is aimed to be relevant to the samples tested and that will provide for their traceability.

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Table 2-Classes of reaction to fire performance for floorings

Class	Test method(s)	Classification criteria	Additional classification
$A1_{fl}$	EN ISO 1182 [a] and	$\Delta T \leq 30$ °C; and $\Delta m \leq 50$ %; and $t_f = 0$ (i.e. no sustained flaming)	-
	EN ISO 1716	*PCS* ≤ 2,0 MJ/kg [a] and *PCS* ≤ 2,0 MJ/kg [b] and *PCS* ≤ 1,4 MJ/m^2 [c] and *PCS* ≤ 2,0 MJ/kg [d]	-
$A2_{fl}$	EN ISO 1182 [a] or	$\Delta T \leq 50$ °C and $\Delta m \leq 50$ % and $t_f \leq 20$ s	-
	EN ISO 1716 and	*PCS* ≤ 3,0 MJ/kg [a] and *PCS* ≤ 4,0 MJ/m^2 [b] and *PCS* ≤ 4,0 MJ/m^2 [c] and *PCS* ≤ 3,0 MJ/kg [d]	-
	EN ISO 9239-1 [e]	Critical flux [f] ≥ 8,0 kW/m^2	Smoke production [g]
B_{fl}	EN ISO 9239-1 [e] and	Critical flux [f] ≥ 8,0 kW/m^2	Smoke production [g]
	EN ISO 11925-2 [h]: Exposure = 15 s	*F*s ≤ 150 mm within 20 s	-
C_{fl}	EN ISO 9239-1 [e] and	Critical flux [f] ≥ 4,5 kW/m^2	Smoke production [g]
	EN ISO 11925-2 [h]: Exposure = 15 s	*F*s ≤ 150 mm within 20 s	-
D_{fl}	EN ISO 9239-1 [e] and	Critical flux [f] ≥ 3,0 kW/m^2	Smoke production [g]
	EN ISO 11925-2 [h]: Exposure = 15 s	*F*s≤150mm within 20 s	-
E_{fl}	EN ISO 11925-2 [h]: Exposure = 15 s	Fs ≤ 150 mm within 20 s	-
F_{fl}	EN ISO 11925-2 [h]: Exposure = 15 s	Fs > 150 mm within 20 s	-

[a] For homogeneous products and substantial components of non-homogeneous products.
[b] For any external non-substantial component of non-homogeneous products.
[c] For any internal non-substantial component of non-homogeneous products.
[d] For the product as a whole.
[e] Test duration = 30 min.
[f] Critical flux is defined as the radiant flux at which the flame extinguishes or the radiant flux after a test period of 30 min, whichever is the lower (i.e. the flux corresponding with the furthest extent of spread of flame).
[g] **s1** = Smoke ≤ 750 % minutes;
s2 = not s1.
[h] Under conditions of surface flame attack and, if appropriate to the end use application of the product, edge flame attack

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SAMPLE INFORMATION AND PICTURES

Thickness of test specimen: 1.9mm
Density of test specimen: 3.4kg/m^2



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Part 3 (SGS Ref. No.: CAN21-083308, CAN21-086896, CAN21-100607)

Test Results 1 :

Test Part Description :

SGS Sample ID	Description
CAN21-083308.001	Yellow material(surface)

Remarks :

(1) 1 mg/kg = 0.0001%
(2) MDL = Method Detection Limit
(3) ND = Not Detected (< MDL)
(4) "-" = Not Regulated

EN 71-3:2019 - Migration of Certain Elements

Test Method : With reference to EN 71-3:2019, analysis was performed by ICP-OES. Chromium (VI) was analyzed by IC-UV/LC-ICP-MS.

Test Item(s)	Limit	Unit	MDL	*001*
Soluble Aluminum (Al)	70000	mg/kg	50	ND
Soluble Arsenic (As)	47	mg/kg	10	ND
Soluble Boron (B)	15000	mg/kg	50	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND
Soluble Lead (Pb)	23	mg/kg	10	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND
Soluble Selenium (Se)	460	mg/kg	10	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND
Soluble Tin (Sn)	180000	mg/kg	4.9	ND
Soluble Organic Tin	12	mg/kg	-	ND
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.020	ND
Comment				**PASS**

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Notes :

1.Soluble Chromium (III)= Soluble Total Chromium- Soluble Chromium (VI)

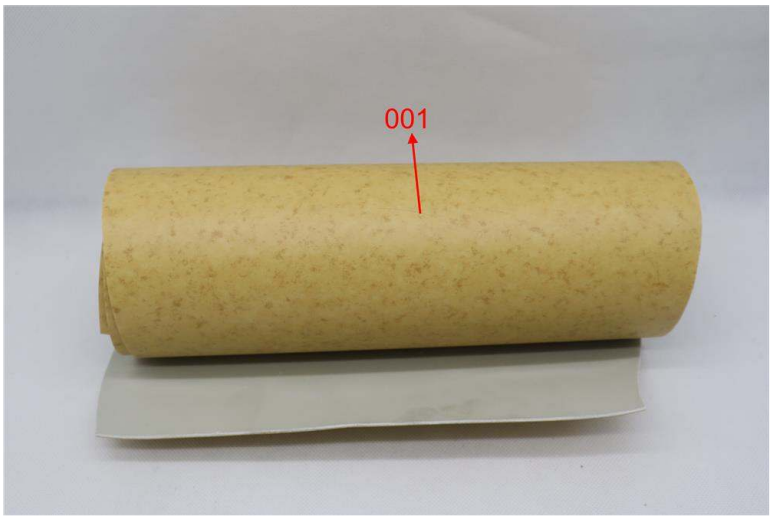
2. Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in EN 71-3:2019.

Pentachlorophenol (PCP)

Test Method : With reference to BS EN 14041 Annex B & EN12673:1999, analysis was performed by GC-ECD / GC-MS.

Test Item(s)	Limit	Unit	MDL	*001*
Pentachlorophenol	5	mg/kg	0.1	ND

Sample photo of Test Results 1 :



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Test Results 2 :

Test Part Description :

SGS Sample ID	Description
CAN21-086896.001	Yellow material(surface)

Remarks :

(1) 1 mg/kg = 0.0001%
(2) MDL = Method Detection Limit
(3) ND = Not Detected (< MDL)
(4) "-" = Not Regulated

Volatile Organic Compounds (VOCs) Emissions

Test Method : With reference to ISO 16000-9:2006 / COR1-2007 &ISO 16000-6:2011 & ISO16000-3:2011. Testing was performed by Environmental Chamber, followed by sampling using Tenax-TA and DNPH tube, analysis using Thermodesorption System with Gas Chromatography Mass Spectrometry (TDS-GC/MS) and High Performance Liquid Chromatography-DAD (HPLC-DAD).

Test Item(s)	Unit	*001*
Gas trapping analysis condition		
Chamber Volume	m^3	0.05
Storage condition (Temperature)	℃	23
Storage condition (Humidity)	%	50
Air Exchange Rate	1/h	0.5
Sample loading	m^2/m^3	0.4
Tenax Sampling Flow	mL/min	200
Tenax Sampling Time	minutes	25
Tenax Sampling Volume	L	5
DNPH Sampling Flow	mL/min	300
DNPH Sampling Time	minutes	60
DNPH Sampling Volume	L	18
MDL	$\mu g/m^3$	2.0

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Test Item(s)	CAS NO.	Unit	001 7th day
		-	
Aromatic Hydrocarbons			
Benzene	71-43-2	μg/m³	ND
Toluene	108-88-3	μg/m³	3.0
Ethylbenzene	100-41-4	μg/m³	ND
m/p-Xylene	108-38-3/106-42-3	μg/m³	ND
o-Xylene	95-47-6	μg/m³	ND
n-Propylbenzene	103-65-1	μg/m³	ND
1,2,4-Trimethylbenzene	95-63-6	μg/m³	ND
1,3,5-Trimethylbenzene	108-67-8	μg/m³	ND
2-Ethyltoluene	611-14-3	μg/m³	ND
Styrene	100-42-5	μg/m³	ND
Naphthalene	91-20-3	μg/m³	ND
4-Phenylcyclohexene	4994-16-5	μg/m³	ND
Aliphatic Hydrocarbons			
Hexane	110-54-3	μg/m³	ND
Heptane	142-82-5	μg/m³	ND
Octane	111-65-9	μg/m³	ND
Nonane	111-84-2	μg/m³	ND
Decane	124-18-5	μg/m³	5.1
Undecane	1120-21-4	μg/m³	3.2
Dodecane	112-40-3	μg/m³	10.2
Tridecane	629-50-5	μg/m³	ND
Tetradecane	629-59-4	μg/m³	3.7
Pentadecane	629-62-9	μg/m³	ND
Hexadecane	544-76-3	μg/m³	ND
2-Methylpentane	107-83-5	μg/m³	ND
3-Methylpentane	96-14-0	μg/m³	ND
1-Octene	111-66-0	μg/m³	ND
1-Decene	872-05-9	μg/m³	ND
Cycloalkanes			
Methylcyclopentane	96-37-3	μg/m³	ND
Cyclohexane	110-82-7	μg/m³	ND
Methylcyclohexane	108-87-2	μg/m³	ND

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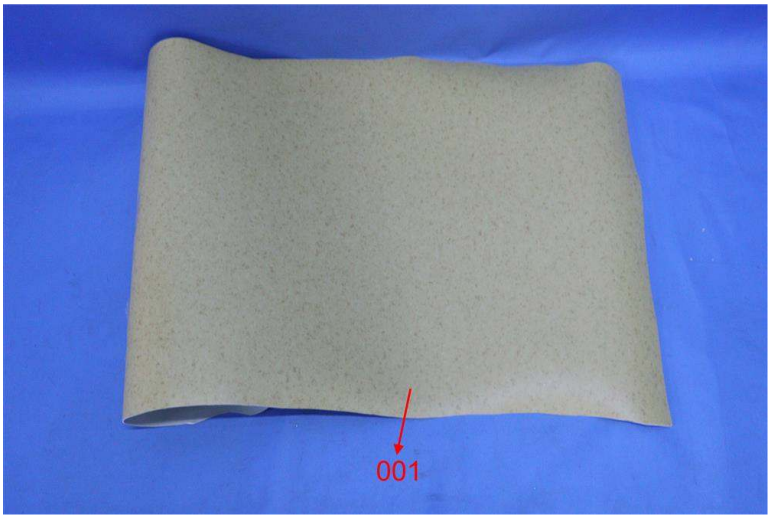
Terpenes			
3-Carene	13466-78-9	μg/m³	ND
a-Pinene	80-56-8	μg/m³	ND
b-Pinene	18172-67-3	μg/m³	ND
Limonene	138-86-3	μg/m³	ND
Alcohols			
2-Propanol	67-63-0	μg/m³	ND
1-Butanol	71-36-3	μg/m³	ND
2-Ethyl-1-hexanol	104-76-7	μg/m³	42.0
Phenol	108-95-2	μg/m³	4.8
Glycols/Glycol Ethers			
2-Methoxyethanol	109-86-4	μg/m³	ND
2-Ethoxyethanol	110-80-5	μg/m³	ND
2-Butoxyethanol	111-76-2	μg/m³	ND
1-methoxy-2-propanol	107-98-2	μg/m³	2.5
2-Butoxyethoxyethanol	112-34-5	μg/m³	ND
Aldehydes			
Butanal	123-72-8	μg/m³	ND
Pentanal	110-62-3	μg/m³	ND
Hexanal	66-25-1	μg/m³	ND
Nonanal	124-19-6	μg/m³	ND
Benzaldehyde	100-52-7	μg/m³	ND
Ketones			
2-Butanone	78-93-3	μg/m³	2.3
Methylisobutylketone	108-10-1	μg/m³	22.6
Cyclohexanone	108-94-1	μg/m³	103.9
Acetophenone	98-86-2	μg/m³	4.4
Halocarbons			
Trichloroethene	79-1-6	μg/m³	ND
Tetrachloroethylene	127-18-4	μg/m³	ND
1,1,1-Trichloroethane	71-55-6	μg/m³	ND
1,4-Dichlorobenzene	106-46-7	μg/m³	ND
Epichlorohydrin	106-89-8	μg/m³	ND
Methylene-chloride	75-09-2	μg/m³	ND
Chloroform	67-66-3	μg/m³	ND
Chlorobenzene	108-90-7	μg/m³	ND
Acids			
Hexanoic-acid	142-62-1	μg/m³	ND

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Esters			
Ethyl-acetate	141-78-6	μg/m³	ND
Butyl-acetate	123-86-4	μg/m³	55.3
Isopropyl-acetate	108-21-4	μg/m³	ND
2-Methoxyethylacetate	110-49-6	μg/m³	ND
2-Ethoxyethylacetate	111-15-9	μg/m³	ND
TXIB	6846-50-0	μg/m³	ND
Vinyl-acetate	108-05-4	μg/m³	ND
Others			
2-Pentylfuran	3777-69-3	μg/m³	ND
Tetrahydrofuran	109-99-9	μg/m³	ND
1,4-Dioxane	123-91-1	μg/m³	ND
N,N-Dimethylformamide	68-12-2	μg/m³	ND
1-methyl-2-pyrrolidinone	872-50-4	μg/m³	ND
TVOC		μg/m³	396.9
Carbonyl compounds			
Formaldehyde	50-00-0	μg/m³	4.4
Acetaldehyde	75-07-0	μg/m³	ND

Sample photo of Test Results 2 :



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Test Results 3 :

Test Part Description :

SGS Sample ID	Description
CAN21-100607.001	Yellow material(surface)

Remarks :

(1) 1 mg/kg = 0.0001%
(2) MDL = Method Detection Limit
(3) ND = Not Detected (< MDL)
(4) "-" = Not Regulated

EN 13986:2004+A1:2015 - Formaldehyde Emission

Test Method : With reference to EN 717-1:2004, analysis was performed by UV-Vis.

Test Item(s)	Unit	MDL	*001*
Formaldehyde Emission (In air)	mg/m³	0.050	ND

Notes :

(1) mg/m³ = milligram per cubic meter
(2) Reference Limit: BS EN 13986:2004+A1:2015
Formaldehyde class E1: ≤0.124 mg/m³ air
Formaldehyde class E2: >0.124 mg/m³ air

BS EN 14041:2004 – 4.3 Formaldehyde Emission

Test Method : With reference to EN 717-1:2004, analysis was performed by UV-Vis.

Test Item(s)	Unit	MDL	*001*
Formaldehyde Emission (In air)	mg/m³	0.050	ND

Notes :

(1) mg/m³ = milligram per cubic meter
(2) Formaldehyde class E1: ≤0.124 mg/m³ air
Formaldehyde class E2: >0.124 mg/m³ air

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Sample photo of Test Results 3:



Remark: Part 3 was subcontracted to SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch.

This test report is issued based on the modification of the original No. SDHL2105007975HI-01 test report issued on Jul 02, 2021. And the original report is still valid. According to applicant's requirements, following changes are included:

a. Change of "Client Reference Information" on the Cover Page.

End of Report

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