

JIANGXI GILARDINO BUILDING MATERIALSTECHNOLOGY CO., LTD.
ZHONGXIN ROAD, YUJIANG INDUSTRY PARK, YUJIANG COUNTY, YINGTAN CITY, JIANGXI PROVINCE

The following sample(s) was / were submitted and identified on behalf of the client as:

Sample Description : SPC FLOORING
Sample Receiving Date : Jun.04, 2019
Test Performing Date : Jun.04, 2019 to Jul.08, 2019

For further details, please refer to the following page(s)

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



Peter Zhao
Approved signatory



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Test Result Summary

No.	Test item	Test(s) Requested(Method)	Result(s)	Comments	
Part 1	1	BS EN 14041:2018 Clause 4.1 & EN 13501-1:2018 Fire classification of construction products and building elements-Part 1: Classification using data from reaction to fire tests	Classification: B _{f1} -s1	/	
Part 2	1	BS EN 14041:2018 – 4.2 Pentachlorophenol (PCP)	PASS	/	
	2	BS EN 14041:2018 – 4.2 Phthalates	PASS	/	
	3	BS EN 14041:2018 – 4.2 Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs), Alkanes C14-C17, chloro (medium -chain chlorinated paraffins) (MCCPs)	PASS	/	
	4	BS EN 14041:2018 – 4.2 Pentabromodiphenyl ether, Octabromodiphenyl ether, Decabromodiphenyl ether	PASS	/	
	5	BS EN 14041:2018 – 4.2 Cadmium(Cd)	PASS	/	
	6	BS EN 14041:2018 – 4.2 Lead (Pb)	See Results	/	
	7	BS EN 14041:2018 – 4.2 Polycyclic Aromatic Hydrocarbons (PAHs)	PASS	/	
	8	BS EN 14041:2018 – 4.2 Organotin Compounds	PASS	/	
	9	BS EN 14041:2018 – 4.2 Azo Dyes	See Results	/	
	10	BS EN 14041:2018 – 4.2 Perfluorooctanoic acid (PFOA)	PASS	/	
	11	BS EN 14041:2018 – 4.2 Dimethyl fumarate(DMFu)	PASS	/	
	12	BS EN 14041:2018 – 4.3 Volatile Organic Compounds (VOCs) Emissions	See Results	/	
	13	BS EN 14041:2018 – 4.3 Formaldehyde Emission	E1	/	
Part 3	1	Thermal conductivity	BS EN 14041:2018 Clause 4.7 & EN 12664:2001 Heat flow meter method	0.123W/(m·K)	/
		Thermal resistance		0.040(m ² ·K)/W	
Part 4	1	Resilient, laminate and textile floor coverings —Measurement of dynamic coefficient of friction on dry floor surfaces (BS EN 14041:2018 Clause 4.5 & EN 13893:2002)	See Results	/	

For further details, please refer to the following page(s)



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Test Information:

Part 1 (SGS Ref. No. : SDFS1906003262FF) :

TESTS AND RESULTS

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 11925-2:2010+AC:2011 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, with its density about 1800kg/m³, 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	≥11 kW/m ²
	Smoking measurement Integrated smoke value		305.6 %×min
	Comments and Observation		Charring
EN ISO 11925-2:2010+AC:2011 Exposure = 15 s	F _s ≤ 150 mm within 20 s	3	Yes

Remark:

- 1). Specimens that do not ignite or which spread flame less than 110 mm have a critical heat flux ≥ 11kW/m²
- 2). Above value is the mean value for the critical flux (CHF and/or HF-30) from the three same orientation specimens.



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 A_{1fl} to F_{fl}, where A_{1fl} 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	$\Delta T \leq 30 \text{ }^\circ\text{C}$; and $\Delta m \leq 50 \%$; and $t_f = 0$ (i.e. no sustained flaming)	-
	EN ISO 1716	$PCS \leq 2,0 \text{ MJ/kg}$ ^a and $PCS \leq 2,0 \text{ MJ/kg}$ ^b and $PCS \leq 1,4 \text{ MJ/m}^2$ ^c and $PCS \leq 2,0 \text{ MJ/kg}$ ^d	-
A2 _{fl}	EN ISO 1182 ^a or	$\Delta T \leq 50 \text{ }^\circ\text{C}$ and $\Delta m \leq 50 \%$ and $t_f \leq 20 \text{ s}$	-
	EN ISO 1716 and	$PCS \leq 3,0 \text{ MJ/kg}$ ^a and $PCS \leq 4,0 \text{ MJ/m}^2$ ^b and $PCS \leq 4,0 \text{ MJ/m}^2$ ^c and $PCS \leq 3,0 \text{ MJ/kg}$ ^d	-
	EN ISO 9239-1 ^e	Critical flux ^f $\geq 8,0 \text{ kW/m}^2$	Smoke production ^g
B _{fl}	EN ISO 9239-1 ^e and	Critical flux ^f $\geq 8,0 \text{ kW/m}^2$	Smoke production ^g
	EN ISO 11925-2 ^h : Exposure = 15 s	$F_s \leq 150 \text{ mm}$ within 20 s	-
C _{fl}	EN ISO 9239-1 ^e and	Critical flux ^f $\geq 4,5 \text{ kW/m}^2$	Smoke production ^g
	EN ISO 11925-2 ^h : Exposure = 15 s	$F_s \leq 150 \text{ mm}$ within 20 s	-
D _{fl}	EN ISO 9239-1 ^e and	Critical flux ^f $\geq 3,0 \text{ kW/m}^2$	Smoke production ^g
	EN ISO 11925-2 ^h : Exposure = 15 s	$F_s \leq 150 \text{ mm}$ within 20 s	-
E _{fl}	EN ISO 11925-2 ^h : Exposure = 15 s	$F_s \leq 150 \text{ mm}$ within 20 s	-
F _{fl}	EN ISO 11925-2 ^h : Exposure = 15 s	$F_s > 150 \text{ mm}$ 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 $\leq 750 \%$ 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: About 4mm
Mass per unit area: About 7.96kg/m²



Sample face



Sample back



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Part 2 (SGS Ref. No. : CAN19 110015, CAN19-107695, CAN19 125662, CAN19-108235) :

Test Results :

Test Part Description :

SGS Sample ID	Description
CAN19-110015.001	
CAN19-125662	Transparent sheet with brown backing
CAN19-107695.002	
CAN19-108235	Brown surfaced board

Remarks :

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

Pentachlorophenol (PCP)

Test Method : With reference to BS EN 14041:2018 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

Phthalates

Test Method : With reference to BS EN 14041:2018 Annex F, analysis was performed by GC-MS

Test Item(s)	CAS NO.	Limit	Unit	MDL	001
Dibutyl Phthalate (DBP)	84-74-2	-	%(w/w)	0.005	ND
Benzylbutyl Phthalate (BBP)	85-68-7	-	%(w/w)	0.005	ND
Di(2-ethylhexyl)phthalate(DEHP)	117-81-7	-	%(w/w)	0.005	ND
DBP+BBP+DEHP	-	0.1	%(w/w)	-	ND



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Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs), Alkanes C14-C17, chloro (medium -chain chlorinated paraffins) (MCCPs)

Test Method : With reference to ISO 18219: 2015, analysis was performed by GC-NCI-MS / GC-ECD.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)	1000	mg/kg	50	ND
Alkanes C14-C17, chloro (medium -chain chlorinated paraffins) (MCCPs)	1000	mg/kg	50	ND
SCCPs + MCCPs	1000	mg/kg	-	ND

Pentabromodiphenyl ether, Octabromodiphenyl ether, Decabromodiphenyl ether

Test Method : With reference to IEC 62321-6:2015, determination of PBDEs by GC-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Pentabromodiphenyl ether	1000	mg/kg	5	ND
Octabromodiphenyl ether	1000	mg/kg	5	ND
Decabromodiphenyl ether	1000	mg/kg	5	ND

Remark: IEC 62321 series is equivalent to EN 62321 series

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Cadmium(Cd)

Test Method : With reference to EN 1122: 2001, Method B, analysis was performed by AAS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Cadmium (Cd)	100	mg/kg	5	ND

Lead

Test Method : With reference to CPSC-CH-E1002-08.3. Analysis was performed by ICP-OES.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Lead (Pb)	0.1	%(w/w)	0.002	ND



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Polycyclic Aromatic Hydrocarbons (PAHs)

Test Method : With reference to BS EN 14041:2018 Annex E, analysis was performed by GC-MS.

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Benzo(a)anthracene(BaA)	56-55-3	1.0	mg/kg	0.2	ND
Benzo(a)pyrene(BaP)	50-32-8	1.0	mg/kg	0.2	ND
Benzo(e)pyrene(BeP)	192-97-2	1.0	mg/kg	0.2	ND
Chrysene(CHR)	218-01-9	1.0	mg/kg	0.2	ND
Benzo(b)fluoranthene(BbF)	205-99-2	1.0	mg/kg	0.2	ND
Benzo(j)fluoranthene(BjF)	205-82-3	1.0	mg/kg	0.2	ND
Benzo(k)fluoranthene(BkF)	207-08-9	1.0	mg/kg	0.2	ND
Dibenzo(a,h)anthracene(DBA)	53-70-3	1.0	mg/kg	0.2	ND

Organotin

Test Method : With reference to ISO/TS 16179:2012, analysis was performed by GC-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Dibutyltin (DBT)	-	mg/kg	0.20	ND
Tributyltin (TBT)	-	mg/kg	0.20	ND
Diocetyl tin (DOT)	-	mg/kg	0.20	ND
Triphenyltin (TPHT)	-	mg/kg	0.20	ND
Tricyclohexyltin (TCyT)	-	mg/kg	0.20	ND
Triocetyl tin (TOT)	-	mg/kg	0.20	ND
Tripropyltin (TPT)	-	mg/kg	0.20	ND
Trimethyltin(TMT)	-	mg/kg	0.20	1.87
Sum of Organotin compounds	1000	mg/kg	-	1.87

Azo Dyes

Test Method : With reference to ISO14362-1:2017, analysis was conducted with GC-MS/HPLC-DAD.

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	
					<i>Method A</i>	<i>Method B</i>
4-Aminobiphenyl	92-67-1	30	mg/kg	5	ND	ND
Benzidine	92-87-5	30	mg/kg	5	ND	ND
4-chloro-o-toluidine	95-69-2	30	mg/kg	5	ND	ND
2-naphthylamine	91-59-8	30	mg/kg	5	ND	ND



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Test Report

No. SDHL1906009470HI

Date: Jul.08, 2019

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o-aminoazotoluene	97-56-3	30	mg/kg	5	ND	ND
5-nitro-o-toluidine /	99-55-8	30	mg/kg	5	ND	ND
2-Amino-4-nitrotoluene						
4-chloroaniline	106-47-8	30	mg/kg	5	ND	ND
4-methoxy-m-phenylenediamine	615-05-4	30	mg/kg	5	ND	ND
/ 2,4-Diaminoanisole						
4,4' -diaminodiphenylmethane	101-77-9	30	mg/kg	5	ND	ND
3,3' -dichlorobenzidine	91-94-1	30	mg/kg	5	ND	ND
3,3' -dimethoxybenzidine	119-90-4	30	mg/kg	5	ND	ND
3,3' -dimethylbenzidine	119-93-7	30	mg/kg	5	ND	ND
4,4'-methylenedi-o-toluidine/3,3'-	838-88-0	30	mg/kg	5	ND	ND
Dimethyl-4,4'-diaminodiphenylm						
ethane						
p-cresidine	120-71-8	30	mg/kg	5	ND	ND
4,4' -methylene-bis-	101-14-4	30	mg/kg	5	ND	ND
(2-chloroaniline)						
4,4' -oxydianiline	101-80-4	30	mg/kg	5	ND	ND
4,4' -thiodianiline	139-65-1	30	mg/kg	5	ND	ND
o-toluidine	95-53-4	30	mg/kg	5	ND	ND
4-methyl-m-phenylenediamine /	95-80-7	30	mg/kg	5	ND	ND
2,4-Toluylendiamine						
2,4,5-trimethylaniline	137-17-7	30	mg/kg	5	ND	ND
4-aminoazobenzene	60-09-3	30	mg/kg	5	ND	ND
O-Anisidine	90-04-0	30	mg/kg	5	ND	ND
2,4-Xylidine	95-68-1	30	mg/kg	5	ND	ND
2,6-Xylidine	87-62-7	30	mg/kg	5	ND	ND

Comment

PASS

PASS

Notes :

- (1) Method A is direct reduction, direct reduction refers to the extraction and reduction according to ISO 14362-1:2017 clause 10.2 and relevant clauses. Method B is colorant extraction, colorant extraction refers to the colourant extraction and subsequent reduction according to ISO 14362-1:2017 clause 10.1 and relevant clauses.
- (2) Whenever 4-aminodiphenyl (CAS number 92-67-1), 2-naphylamine (CAS number 91-59-8) and 4-methoxy-m-phenylene-diamine (CAS number 615-05-4) is found, the use of banned azo colorants cannot be reliably ascertained without additional information, e.g. the chemical structure of the colorants used.
- (3) In case polyurethane materials are used, e.g. PU foams and coatings and in prints, it cannot be ruled out that certain amines, e.g. 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) and 2,4-toluylen-diamine (TDA, CAS number 95-80-7) are released from the PU component and not from a banned azo colorant.
- (4) In case of pigment prints care has to be taken that 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) is not released from a source of banned azo colorants but from e.g. a chemical fixing agent.



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Perfluorooctanoic acid (PFOA)

Test Method : With reference to CEN/TS15968:2010, analysis was performed by LC-MS.

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Perfluorooctanoic acid (PFOA)	335-67-1	1000	mg/kg	10	ND

Dimethyl fumarate

Test Method : With reference to ISO/TS 16186:2012, analysis was performed by GC/MS.

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Dimethyl fumarate(DMFu)	624-49-7	1000	mg/kg	0.1	ND

VOCs:

Test Method : With reference to ISO 16000-9:2006 / COR1-2007 &ISO 16000-6:2011& ISO16000-3:2011.

Testing was performed by Environmental Chamber (0.05m³), 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).

Semi-quantitative analysis of the top 20 individual and total volatile organic compounds (TVOC) emission on the submitted sample.



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Sample 002:

NO.	Compound Name	CAS No.	Results [$\mu\text{g}/\text{m}^3$]
			7 th day
1	Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-	128-37-0	6.5
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21	TVOC	-	6.5

- Remark: 1. ND=not detectable (<R.L.)
 2. R.L.= $2.0\mu\text{g}/\text{m}^3$
 3. $\mu\text{g}/\text{m}^3$ = micrograms per cubic metre
 4. Results were based on semi-quantitative analysis and calculated by toluene TIC calibration curve.

Carbonyl Compounds:

Compound Name	CAS No.	Results [$\mu\text{g}/\text{m}^3$]
		7 th day
Formaldehyde	50-00-0	ND

- Remark: 1. N.D.=not detectable (<R.L.)
 2. R.L.= $2.0\mu\text{g}/\text{m}^3$
 3. $\mu\text{g}/\text{m}^3$ = micrograms per cubic metre



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According to client requirement, TVOC identification refers to CEN/TS 16516:2013, clause 8.2.7. The sum of VOCs shall be determined by summing the individual concentrations of every identified and unidentified compound eluting between n-hexane and n-hexadecane inclusively, at a concentration above 5 µg/m³, all calculated as toluene equivalent.

Calculated VOC concentrations in the model room (reference to CEN/TS 16516:2013, model room volume = 31.4 m³ and air exchange rate = 0.5 h⁻¹, sample loading rate=0.4 m²/m³)

NO.	Compound Name	CAS No.	Results in chamber [µg/m ³]	Calculated results in model room [µg/m ³]
			7 th day	
1	Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-	128-37-0	6.5	12.9
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21	TVOC	-	6.5	12.9

Remark: 1. ND=not detectable (<R.L.)
2. R.L.= 5.0µg/m³(Results in chamber)



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Carbonyl Compounds:

Compound Name	CAS No.	Results in chamber[$\mu\text{g}/\text{m}^3$]	Calculated results in model room[$\mu\text{g}/\text{m}^3$]
		7 th day	
Formaldehyde	50-00-0	ND	ND

Remark: 1. ND=not detectable (<R.L.)
2. R.L.= 5.0 $\mu\text{g}/\text{m}^3$ (Results in chamber)

Test condition

Chamber Volume (m^3)	0.05	Testing Temperature ($^{\circ}\text{C}$)	23
Testing Humidity (rH%)	50	Air Exchange Rate (1/h)	1.0
Sample Loading (m^2/m^3)	0.4		
Tenax Sampling Flow (mL/min)	200	DNPH Sampling Flow (mL/min)	300
Tenax Sampling Time (min)	25	DNPH Sampling Time (min)	60
Tenax Sampling Volume (L)	5	DNPH Sampling Volume (L)	18

Formaldehyde

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

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Formaldehyde Emission (In air)	mg/m^3	0.080	ND

Notes :

- (1) mg/m^3 = milligram per cubic meter
- (2) Reference Limit: EN13986:2004(E)
Formaldehyde class E1: $\leq 0.124 \text{ mg}/\text{m}^3$ air
Formaldehyde class E2: $> 0.124 \text{ mg}/\text{m}^3$ air



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Sample photo:



Product Photo



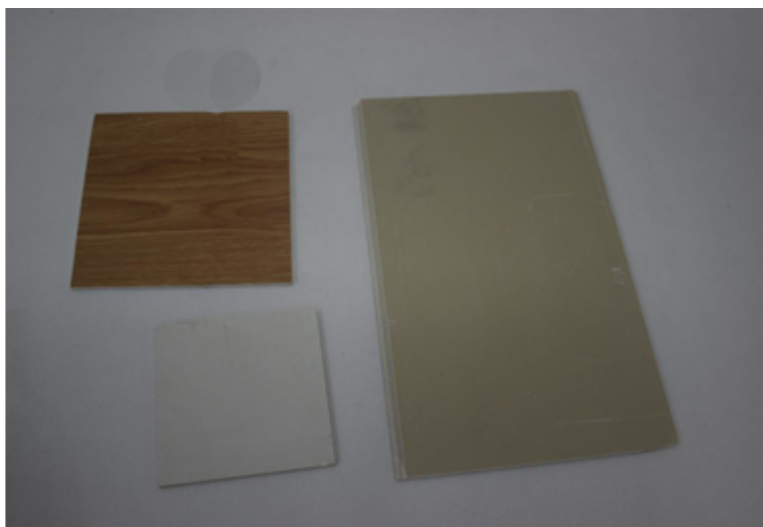
Product Photo



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Product Photo

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Part 3 (SGS Ref. No. : SHIN190601662CCM) :

Test item: Thermal conductivity and thermal resistance

Test method: BS EN 14041:2018 Clause 4.7 & EN 12664:2001 Heat flow meter method

Test condition:

Specimen: 319mm×315mm×5.0mm, 1pc

Density: about 2062kg/m³

Mean temperature: 23°C

Temperature difference: 10°C

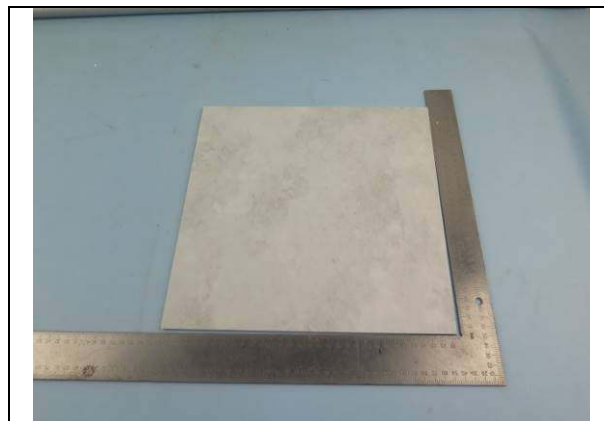
Lab environmental condition: 23±2°C, 50±5%RH

Test result:

Test Item	Test Result
Thermal conductivity	0.123W/(m·K)
Thermal resistance	0.040(m ² ·K)/W

Note: The test result cannot be compared with other results obtained from different test conditions and should not be cited to the use condition directly.

Test specimen photos:



Remark: Part 3 was subcontracted to SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.



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

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Part 4 (SGS Ref. No. : SHHL1906029589BM) :

Test Conducted:

1. **Resilient, laminate and textile floor coverings —Measurement of dynamic coefficient of friction on dry floor surfaces (BS EN 14041:2018 Clause 4.5 & EN 13893:2002)**

Clause	Test Method / Requirement	Result/ Rating
Standard Test Method for Thickness of Resilient Flooring Materials Having Flat Surfaces	<p>Take test pieces, from both production (machine) and cross-machine directions, of dimensions approximately 100 cm by 50 cm from a sample of the floor covering.</p> <p>Condition the test pieces for at least 24 h at the standard atmosphere (23 ± 2) °C and (50 ± 5) % relative humidity or alternatively at (20 ± 2) °C and (65 ± 5) % relative humidity.</p> <p>Clean the surface of laminate and resilient floor covering test pieces with the clean dry cotton cloth and use the brush to clean the surface of textile floor coverings.</p> <p>Condition the test device in the standard atmosphere for at least 24 h.</p> <p>Take the measurements in the machine direction and the cross-machine direction.</p> <p>Take five measurements using the test device. For each measurement pull the slider along a new trace.</p> <p>The first two measurements can be non-representative and they shall be ignored. Record the horizontal forces over 0,30 m for the 3rd, 4th and 5th measurements for each direction.</p>	Dynamic coefficient of friction: 0.35

Remark: As requirement in standard, measurements were conducted on two direction, final result was expressed as the lower of the two average values.

Remark:

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- The declaration of conformity is only based on the actual value of laboratory activity, measurement uncertainty of the results not take into account.



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Sample Photo:

Test sample



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End of Report



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