TEST REPORT

No. : XMIN210154382CM
Date : Jan.20, 2021

CUSTOMER NAME:		NANTONG JORDAN NEW MATERIAL TECHNOLOGY CO., LTD.
ADDRESS:		Group 13, Xinxu village, Motou Town, Rugao City, Nantong City, Jiangsu Province, China
Sample Name	:	SPC FLOORING
Material	:	PVC
Spec.	:	1524×231×5mm
Manufacturer	:	NANTONG JORDAN NEW MATERIAL TECHNOLOGY 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.	:	SDHL1806012623FB, SL818082407353TX, XMNMLC1800679101, XMNMLC1800681501
Date of Receipt	:	Jan.09, 2021
Testing Start Date	:	Jan.19, 2021
Testing End Date	:	Jan.19, 2021
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. Xiamen Branch Testing Center

Civi Huang Authorized Signatory

SGS-CSTC Standards Technical Services Co.,Ltd. Xiamen Branch Testing Center Commercial Construction Material Laboratory

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
Attention:To check the authenticity of testing / inspection report & certificate, please contact us at telephone:(86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.31 Xianghong Road, Xiang'An Torch Industrial Zone, Xiamen, Fujian Province, China. 361101 t (86-592) 5765857 f (86-592) 5765380 www.sgsgroup.com.cn
中国•福建•厦门•火炬（翔安）产业区翔虹路31号 邮编:361101 t (86-592) 5765857 f (86-592) 5765380 e sgs.china@sgs.com

TEST REPORT

Sample Information:

Flooring, See the photographs.

Test Result(s):

No.	Test item(s)	Test method(s)	Test condition	Test result(s)
1	Residual indentation	EN ISO 24343-1:2012	Specimen: 60mm×60mm×5mm, 3pcs Condition: 23±2℃, 50±5%RH, 24h → 500N, 150min → Recovery time: 150min	0.01mm
2	Slip resistance (oil-wet ramp test)	DIN 51130:2014-02	Specimen: 1524mm×231mm 2 pieces form a testing surface of 1220mm×360mm Condition: 23±2℃, 50±5%RH Testing direction: see the photo	Critical angle of inclination: 9.4° Classification: R9
3	Scratch Resistance (Diamond Scratch Method)	ANSI NEMA LD3-2005 Section 3.7.3	Specimens: 100mm×100mm×5mm, 3pcs Precondition: 23±2℃, 50±5%RH, 72h Testing surface: see the photo	Rating 3: > 90% continuous double circle of scratch marks clearly visible (see table 1)
4	Reaction to fire	EN 13501-1:2007+A1:2009 EN ISO 9239-1:2010 EN ISO 11925-2:2010+AC:2011	/	Classification: Bfl-s1 (See Annex A)
5	Colour Fastness To Light	EN ISO 105-B02:2014; Method 3	Use Xenon arc lamp, exposure cycle A1, no flip-flop mode was used.	At standard 6 grade bluewool: 6
6	RoHS: Elementary Analysis, Flame Retardants and Phthalates	Refer to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017 and IEC 62321-6:2015	Analyzed by ICP-OES, UV-Vis and GC-MS.	Not Detected (See Annex B)
7	Substances of Very High Concern (SVHC)	SGS In House method	Analyzed by ICP OES, UV VIS, GC MS, HPLC DAD/MS and Colorimetric Method.	The test results of SVHC are ≤ 0.1% (w/w) PASS (See Annex C)

Note: Test item 4 was carried out by SGS-CSTC Standards Technical Services Co., Ltd. Shunde Branch.

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

SGS-CSTC Standards Technical Services Co.,Ltd. Xiamen Branch Testing Center Commercial Construction Material Laboratory

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention:To check the authenticity of testing / inspection report & certificate, please contact us at telephone:(86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.31 Xianghong Road, Xiang'An Torch Industrial Zone, Xiamen, Fujian Province, China. 361101 t (86-592) 5765857 f (86-592) 5765380 www.sgsgroup.com.cn
中国•福建•厦门•火炬（翔安）产业区翔虹路31号 邮编:361101 t (86-592) 5765857 f (86-592) 5765380 e sgs.china@sgs.com

Member of the SGS Group (SGS SA)

Annex A

Reaction to fire

Test Method:

This test is conducted as per EN 13501-1:2007+A1:2009 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 Reaction to fire tests-Ignitability of building products subjected to direct impingement of flame-Part 2: Single-flame source test.

Sample Information:

Thickness: About 4 mm

Mass per unit area: About 7.99 kg/m^2

Test Results:

Test method	Parameter	Number of tests	Results
EN ISO 9239-1:2010	The mean value for the critical heat flux (CHF and/or HF-30) from the same orientation	3	≥11 kW/m^2
	Smoking measurement Integrated smoke value		70.6 %×min
	Comments and Observation		Charring
EN ISO 11925-2:2010 Exposure = 15 s	*F*s ≤ 150 mm within 20 s	12	Yes

Remark：

1). Specimens that do not ignite or which spread flame less than 110 mm have a critical heat flux ≥ 11kW/m^2

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 13501-1:2007+A1:2009.**

Classification:

Fire behaviour		Smoke production	
B_{fl}	—	s	1

SGS-CSTC Standards Technical Services Co.,Ltd. Xiamen Branch Testing Center Commercial Construction Material Laboratory

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention:To check the authenticity of testing / inspection report & certificate, please contact us at telephone:(86-755) 8307 1443, or email: CN.Doccheck@sgs.com

TEST REPORT

No. : XMIN210154382CM
Date : Jan.20, 2021

Annex B

Elementary Analysis, Flame Retardants and Phthalates

Test Method : With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Part Description: Brown&dk-brown grain printing surfaced grey plastic board(mixed*), see the photo

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

Test Item(s)	Limit	Unit	MDL	*Result*
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND

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

SGS-CSTC Standards Technical Services Co.,Ltd. Xiamen Branch Testing Center Commercial Construction Material Laboratory

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
Attention:To check the authenticity of testing / inspection report & certificate, please contact us at telephone:(86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.31 Xianghong Road, Xiang'An Torch Industrial Zone, Xiamen, Fujian Province, China. 361101 t (86-592) 5765857 f (86-592) 5765380 www.sgsgroup.com.cn
中国•福建•厦门•火炬（翔安）产业区翔虹路31号 邮编:361101 t (86-592) 5765857 f (86-592) 5765380 e sgs.china@sgs.com

Member of the SGS Group (SGS SA)

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	*Fs* ≤ 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	*Fs* ≤ 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	*Fs*≤150mm within 20 s	
E_{fl}	EN ISO 11925-2 [h]: Exposure = 15 s	Fs ≤ 150 mm within 20 s	
F_{fl}	No performance determined		

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

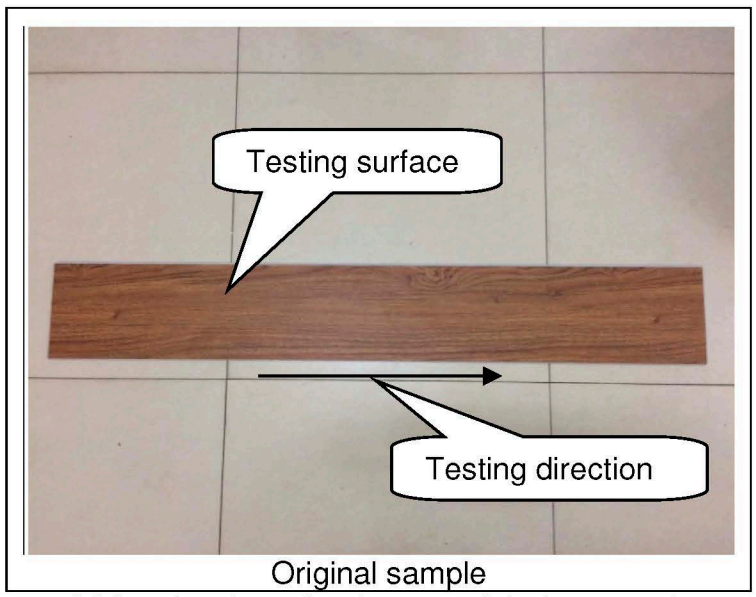
检验检测专用章 Inspection & Testing Services
SGS-CSTC Standards Technical Services Co.,Ltd. Xiamen Branch Testing Center Commercial Construction Material Laboratory

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
Attention:To check the authenticity of testing / inspection report & certificate, please contact us at telephone:(86-755) 8307 1443, or email: CN.Doccheck@sgs.com

Table 1: According to ANSI NEMA LD3-2005 Section 3.7.3 Table 3-2 and figure 3-11:

Scratch rating determination		
Rating	**No visible marks, Faint superficial marks, or Discontinuous scratches**	**> 90% continuous double circle of scratch marks clearly visible**
5	6 N	> 6 N
4	4 N	6 N
3	2 N	4 N
2	1 N	2 N
1	Not applicable	1 N

Specimen photograph:



Original sample

SGS authenticate the photo on original report only

*******End of report*******

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention:To check the authenticity of testing / inspection report & certificate, please contact us at telephone:(86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co.,Ltd. Xiamen Branch Testing Center Commercial Construction Material Laboratory

No.31 Xianghong Road, Xiang'An Torch Industrial Zone, Xiamen, Fujian Province, China. 361101 t (86-592) 5765857 f (86-592) 5765380 www.sgsgroup.com.cn

中国•福建•厦门•火炬（翔安）产业区翔虹路31号 邮编:361101 t (86-592) 5765857 f (86-592) 5765380 e sgs.china@sgs.com