

JINYIYUAN (JIANG SU)NEW MATERIAL CO.,LTD

TEST REPORT

SCOPE OF WORK

PVC HOMOGENEOUS FLOORING

REPORT NUMBER

210722004SHF-011

TEST DATE(S)

2021-07-22 - 2021-09-13

ISSUE DATE

2021-09-13

PAGES

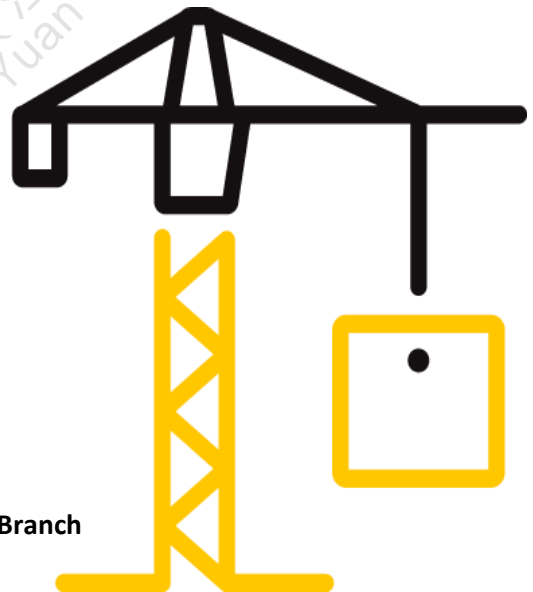
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DOCUMENT CONTROL NUMBER

LFT-APAC-SHF-OP-10k(May 1, 2021)

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Intertek Testing Services Shenzhen Ltd. Shanghai Fengxian Branch



Test Report

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Test Report

Issue Date: 2021-09-13 Intertek Report No. 210722004SHF-011
 Applicant: JINYIYUAN (JIANG SU)NEW MATERIAL CO.,LTD
 Address: No.8 Songdaba Road, Daibu Town, Liyang City, Jiangsu Province, China.
 Attn: Juntao Wang
 Test Type: Performance test, samples provided by the applicant.

Product Information

Product Name	PVC HOMOGENEOUS FLOORING	Brand	/
Sample Description	Good Condition	Sample Amount	2 pcs
		Received Date	2021-07-18
Sample ID	Model	Specification	
S210722004SHF.003~004, 007, 009, 016~017	/	2.0mm	

Test Methods And Standards

Test Standard	EN 13893:2002, DIN 51130:2014, ISO 4918:2016/Amd.1:2018, EN ISO 26987:2012/ISO 26987:2008, ISO 846:2019 Method A
Specification Standard	ISO 4918:2016/Amd.1:2018
Test Conclusion	The samples were tested according to the above standards, and the results are shown in the following page.

Note:

1.This report relates specifically to the sample(s) that were drawn and provided by the applicant or their nominated third party. The reported result(s) provide no warranty or verification on the sample(s) representing any specific goods and/or shipment and only relate to the sample(s) as received and tested.

Report Authorized

	<p><i>Daniel Zhang</i></p> <hr/> <p>Name: Daniel Zhang</p> <p>Title: Approver</p>	<p><i>Sally Xie</i></p> <hr/> <p>Name: Sally Xie</p> <p>Title: Reviewer</p>	<p><i>Eggers Wang</i></p> <hr/> <p>Name: Eggers Wang</p> <p>Title: Project Engineer</p>
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Issue Date: 2021-09-13

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Test Items, Method and Results:

Test Item: Dynamic coefficient of friction

Test Method: EN 13893:2002

Conditioning: Condition the test specimens at $(23 \pm 2)^\circ\text{C}$ and $(50 \pm 5)\%$ relative humidity for at least 24h

Test Condition:

Applied Mass: 9.92 kg

Test Speed: 0.25 m/s

Test Result:

Specimen	Length direction/Machine direction	Width direction/Across machine direction
1	0.53	0.55
2	0.55	0.54
3	0.53	0.53
Mean	0.54	0.54
Result	0.54	

Note:

1. Express the result as the lower of the two mean values in each direction.
2. The test surface and direction were indicated in Appendix A.

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Test Items, Method and Results:

Test item	Test Method	Test result
Slip resistance* (Oil-wet ramp test)	DIN 51130:2014	Angle: 9.2 ° Rating: R9

DIN 51130 Classification of Slip resistance (Oil-wet ramp test)

Classification	Angle
R9	$6^{\circ} < X \leq 10^{\circ}$
R10	$10^{\circ} < X \leq 19^{\circ}$
R11	$19^{\circ} < X \leq 27^{\circ}$
R12	$27^{\circ} < X \leq 35^{\circ}$
R13	$> 35^{\circ}$

Note:

- *Test item is subcontracted on accreditation by CNAS L1401.

Test Report

Issue Date: 2021-09-13

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Test Items, Method and Results:

Test Item: Castor chair test

Test Method: ISO 4918:2016/Amd.1:2018

Conditioning: Condition the test specimens at $(23 \pm 2)^\circ\text{C}$ and $(50 \pm 5)\%$ relative humidity for at least 24h

Test Condition: At a temperature range of 18°C to 25°C

Load mass: 90 kg

Test castors: Type W

Speed of rotating platform: 20 r/min

Speed of castor assembly: 50 r/min

Total test revolutions: 25000 r

Mounting of the specimen: Installation with adhesive to the support

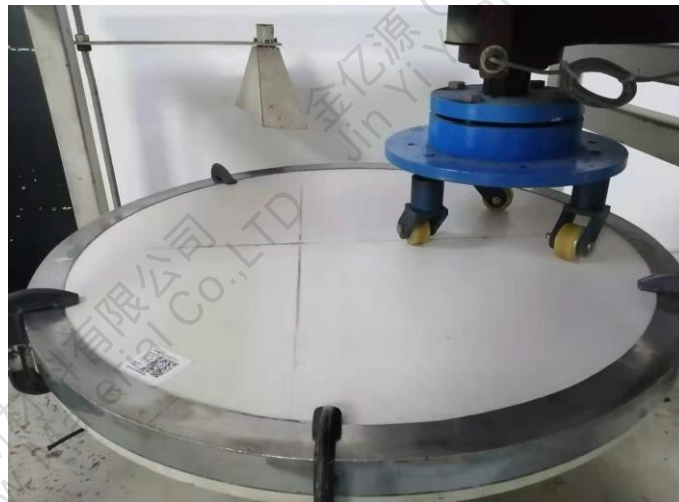
Test Result:

Type of damage	Observation (Yes/No)	Verdict
Delamination	No	Pass
Opening of joints	No	
Surface damage	No	
Crazing	No	
Maximum opening	N/A	N/A
Maximum height differences	N/A	

Note:

1. N/A= Not applicable

Test Photo:



After test

Test Report

Issue Date: 2021-09-13

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Test Items, Method and Results:

Test Item: Resistance to staining

Test Method: EN ISO 26987:2012/ISO 26987:2008

Conditioning: At a temperature of (23±2)°C and relative humidity of (50±5) % for a minimum of 24h

Test Result:

Staining materials	Duration of contact	Types of cleaning	Results	Index
White vinegar (5% acetic acid)	2 hours	Flowing water	Not affected	0
Rubbing alcohol (70% isopropyl alcohol)	2 hours	Flowing water	Not affected	0
White mineral oil (medicinal grade)	2 hours	Flowing water	Not affected	0
Sodium hydroxide solution (5% NaOH)	2 hours	Flowing water	Not affected	0
Hydrochloric acid solution (5% HCl)	2 hours	Flowing water	Not affected	0
Sulfuric acid solution (5% H ₂ SO ₄)	2 hours	Flowing water	Not affected	0
Household ammonia solution (5% NH ₄ OH)	2 hours	Flowing water	Not affected	0
Household bleach (5.25% NaOCl)	2 hours	Flowing water	Not affected	0
Olive oil (light)	2 hours	Flowing water	Not affected	0
Kerozene (K1)	2 hours	Flowing water	Not affected	0
Unleaded gasoline (regular grade)	2 hours	Flowing water	Not affected	0
Phenol (5% active phenol)	2 hours	Flowing water	Not affected	0

Note:

1. Staining materials were specified by applicant.

Interpretation and presentation of results as per ISO 26987:2008

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

Test Report

Issue Date: 2021-09-13

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Test Items, Method and Results:

Test Item: Fungi resistance test

Test Method: ISO 846:2019 Plastics-Evaluation of the action of microorganisms. Method A

Test organisms:

Aspergillus niger	ATCC 6275
Rope penicillium	ATCC 36839
Paecilomyces variotii	ATCC 18502
Gliocladium virens	ATCC 9645
Chaetomium globosum	ATCC 6205

Test condition:

Temperature:	28 °C
Relative humidity:	> 90%
Duration:	28 days

Assessment of fungal growth

Intensity of growth	Evaluation
0	No growth apparent under the microscope.
1a	No growth visible to the naked eye, but clearly visible under the microscope covering up to 25% of the test surface.
1b	No growth visible to the naked eye, but clearly visible under the microscope covering up to 50% of the test surface.
1c	No growth visible to the naked eye, but clearly visible under the microscope covering more than 50% of the test surface.
2	Growth visible to the naked eye, covering up to 25% of the test surface.
3	Growth visible to the naked eye, covering up to 50% of the test surface.
4	Considerable growth, covering more than 50% of the test surface.
5	Heavy growth, covering the entire test surface.

Test result:

Intensity of growth	Evaluation
0	No growth apparent under the microscope.

Note:

1. Test item was subcontracted on accreditation by CNAS L0823.

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Appendix A: Sample Received Photo



Front View



Back View

Revision:

NO.	Date	Changes
210722004SHF-011	2021-09-13	First issue