Bodo Plastics Co.,Ltd.

TEST REPORT

SCOPE OF WORK
SPC Flooring

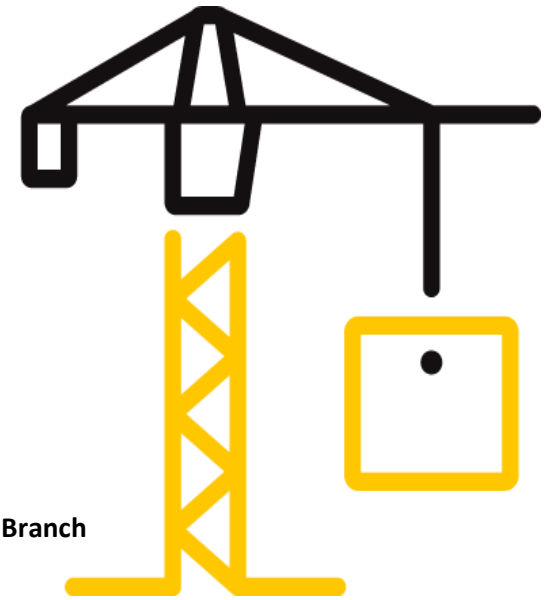
REPORT NUMBER
230831002SHF-001

TEST DATE(S)
2023-08-31 - 2023-09-12

ISSUE DATE
2023-09-12

PAGES
7

DOCUMENT CONTROL NUMBER
LFT-APAC-SHF-OP-10k(September 1, 2022)



Intertek Testing Services Shenzhen Ltd. Shanghai Fengxian Branch

Test Report

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Intertek Testing Services Shenzhen Ltd. Shanghai Fengxian Branch
Plant 5, No. 6958 Daye Road, Fengxian District, Shanghai, China
Tel: +86 21-61136116 Fax: 021-61189921
Website: www.intertek.com

Test Report

Issue Date: 2023-09-12 Intertek Report No. 230831002SHF-001

Applicant: Bodo Plastics Co.,Ltd.

Address: Economic Development Zone, Yi yuan County, Zibo City, Shandong Province

Attn: Jian Ma

Manufacturer: Bodo Plastics Co.,Ltd.

Address: Economic Development Zone, Yi yuan County, Zibo City, Shandong Province

Test Type: Performance test, samples provided by the applicant.

Product Information

Product Name	SPC Flooring	**Brand**	BODO
Sample Description	Good Condition	**Sample Amount**	23 pcs
		Received Date	2023-08-30

Sample ID	**Model**	**Specification**
S230831002SHF.001~003	BT-SPC-AM1505-7	180*1220*4.2mm （3.2mmSPC+1mmIXPE）

Test Methods And Standards

Test Standard	ASTM D3389-21, ASTM F925-13(2020), EN 16094:2021 Procedure B
Specification Standard	/
Test Conclusion	The samples were tested according to the above standards, and the results are shown in the following page.

Note:

1.This report does not involve sampling. The report only reflects conformity of the tested items of the samples provided by the testing applicant. Representativeness and authenticity of the submitted samples are responsibilities of the testing applicant.

Report Authorized

Flora Fan Roger Chen

Name: Flora Fan Name: Roger Chen

Title: Reviewer Title: Project Engineer

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Test Report

Issue Date: 2023-09-12 Intertek Report No. 230831002SHF-001

Test Items, Method and Results:

Test Item: Abrasion/Wear resistance

Test Method: ASTM D3389-21

Conditioning: Condition the test specimens at (23±2)°C and (50±5)% relative humidity for at least 24h

Test Condition:

Rotation frequency:	60	r/min
Abrasive wheels:	H-18	
Load on each wheel:	1000	g
Test revolutions:	1000	r

Test Result:

Parameter	Specimen 1	Specimen 2	Specimen 3	Specimen 4	Specimen 5
Mass/Weight loss, (mg)	141.8	127.0	135.5	132.6	120.9
Average value, (mg)	131.6				

Note:

1. Abbreviation "r" = revolutions/cycles
2. Test conditions were specified by client.

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Test Items, Method and Results:

Test Item: Resistance to Chemicals

Test Method: ASTM F925-13(2020)

Conditioning: Condition the test specimens at (23 ± 2)°C and (50 ± 5)% relative humidity for at least 24h

Test Condition:

Duration of reagent contact: 60 min

Test Result:

Not affected

See below table for detailed test results

Detailed test results of Resistance to Chemicals

Reagent	Rating		
	Surface attack	Color change	Surface dulling
White vinegar (5% acetic acid)	0	0	0
Rubbing alcohol (70% isopropyl alcohol)	0	0	0
White mineral oil (medicinal grade)	0	0	0
Sodium hydroxide solution (5% NaOH)	0	0	0
Hydrochloric acid solution (5% HCl)	0	0	0
Sulfuric acid solution (5% H_2SO_4)	0	0	0
Household ammonia solution (5% NH_4OH)	0	0	0
Household bleach (5.25% NaOCl)	0	0	0
Olive oil (light)	0	0	0
Kerozene (K1)	0	0	0
Unleaded gasoline (regular grade)	0	0	0
Phenol (5% active phenol)	0	0	0

According to ASTM F925-13(2020), rating 0-3 represents:
0 = no change; 1 = slight change; 2 = moderate change; 3 = severe change.
Surface Dulling - Indicating that the specimen suffered from a loss of gloss,
Color Change - Indicating that the specimen suffered discoloration or bleaching, or both, and
Surface Attack - Indicating that the specimen suffered surface damage such as softening, warping, swelling, blistering, peeling, raised or rough area.

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Issue Date: 2023-09-12 Intertek Report No. 230831002SHF-001

Test Items, Method and Results:

Test Item: Micro-scratch resistance

Test Method: EN 16094:2021, Procedure B

Conditioning: Condition the test specimens at (23 ± 2)°C and (50 ± 5)% relative humidity for at least 1 week

Test Condition:

Scrub material: SB 7440 (medium fine)

Holder for scrub material: Version 1, 4N

Speed factor: 1

Number of rubs: 160

Reconditioning: Condition the tested specimens at (23 ± 2)°C and (50 ± 5)% for 24 h before visual assessment

Test Result:

Specimen	Visual assessment	Classification
1	No visible scratches	MSR-B1
2	No visible scratches	MSR-B1
3	No visible scratches	MSR-B1
Average value	No visible scratches	MSR-B1

Classification for visual assessment as per EN 16094 procedure B

Resistance class	Scratch picture	Explanation
MSR-B1		No visible scratches
MSR-B2		Only few scratches
MSR-B3		Many well visible scratches
MSR-B4		A great many well visible raw and fine scratches, Lissajous figure partly visible
MSR-B5		Mix of Lissajous figure and great many scratches, mat abrasion like area in the middle

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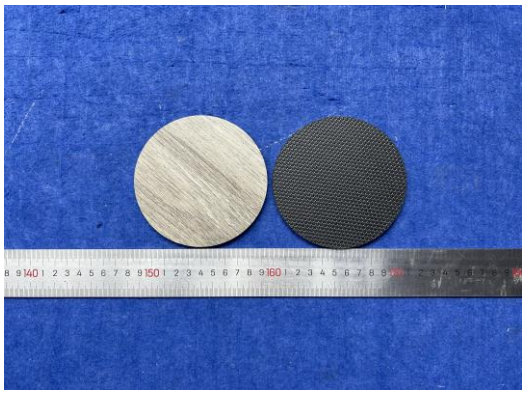
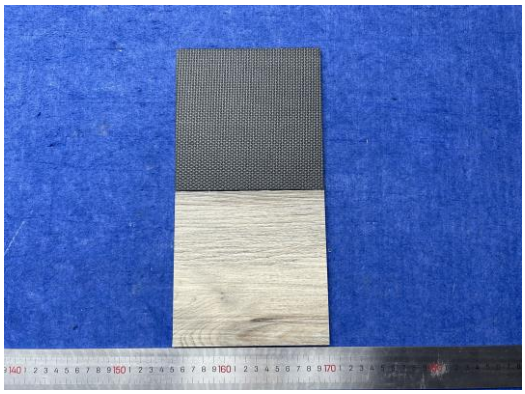
Appendix A: Sample Received Photo



Sample 1



Sample 2

Revision:

NO.	Date	Changes
230831002SHF-001	2023-09-12	First issue