Be Shine Textile Inc.

TEST REPORT

SCOPE OF WORK
Printed and embroidered flame-retardant seamless wall covering

REPORT NUMBER
191230016SHF-002

TEST DATE(S)
2019-12-30 - 2020-01-17

ISSUE DATE
2020-01-17

PAGES
9

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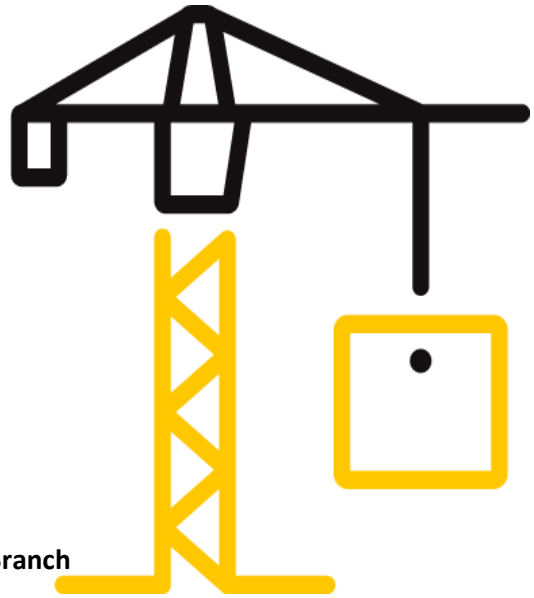

Intertek Testing Services Shenzhen Ltd. Shanghai Fengxian Branch

Test Report

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Test Report

Issue Date: 2020-01-17 Intertek Report No. 191230016SHF-002

Applicant: Be Shine Textile Inc.

Address: 63 McCarty Crescent, L3P 4R5, Markham, ON, Ca

Attn: Sun, Jin

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

Product Information

Product Name	Printed and embroidered flame-retardant seamless wall covering	**Brand**	Be Shine
Sample Description	Good Condition	**Sample Amount**	1 pieces
		Received Date	2019-12-27

Sample ID	Model	Specification
S191230016SHF.002~005	Ingredients: 100% flame retardant polyester fiber. 310 g / square meter. Model: YXZ	Three meters wide

Test Methods And Standards

Test Standard	With reference to ASTM F963-17, RoHS Directive 2011/65/EU and (EU) 2015/863, ASTM D6007-14, ASTM F925-13
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 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

Flora Fan Jackie Zhou

Name: Flora Fan Name: Jackie Zhou

Title: Reviewer Title: Project Engineer

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Test Items, Method and Results:

Test Item: Soluble elements analysis in non-surface coating materials

Test Method: With reference to section 4.3.5.2(2)(b) of the ASTM standard consumer safety specification on toy safety F963-17, acid extraction method was used and heavy metal elements migration content were determined by Inductively Coupled Argon Plasma Spectrometry.

Test Item	Test Result (ppm)	Detection Limit (ppm)	Limit in ASTM F963 (ppm)
Soluble Barium (Ba)	ND	5	1000
Soluble Lead (Pb)	ND	5	90
Soluble Cadmium (Cd)	ND	5	75
Soluble Antimony (Sb)	ND	5	60
Soluble Selenium (Se)	ND	5	500
Soluble Chromium (Cr)	ND	5	60
Soluble Mercury (Hg)	ND	5	60
Soluble Arsenic (As)	ND	2.5	25

Note:

1. ppm = parts per million = mg/kg
2. ND = Not detected (less than the detection limit)
3. Test location: Central Chemical Lab of Intertek Testing Services Ltd., Shanghai
   Address: Block B, Jinling Business Square, No.801, Yi Shan Road, Shanghai, China

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Test Items, Method and Results:

Test Item: RoHS chemical test

Test Result:

Test Items	Limits	Test Result (mg/kg)
Cadmium (Cd)	0.01%(100mg/kg)	ND
Lead (Pb)	0.1%(1000mg/kg)	ND
Mercury (Hg)	0.1%(1000mg/kg)	ND
Chromium (VI)(Cr^{6+}) Content (mg/kg	0.1%(1000mg/kg)	ND
Polybrominated biphenyls (PBBs)	0.1%(1000mg/kg)	ND
Polybrominated diphenyl ethers (PBDEs)	0.1%(1000mg/kg)	ND
Bis(2-ethylhexyl)phthalate (DEHP)	0.1%(1000mg/kg)	ND
Butyl benzyl phthalate (BBP)	0.1%(1000mg/kg)	ND
Dibutyl phthalate (DBP)	0.1%(1000mg/kg)	ND
Diisobutyl phthalate (DIBP)	0.1%(1000mg/kg)	ND

Remark:

1. mg/kg = Milligram per kilogram
2. ND = Not Detected (less than detection limit)
3. The above limits were quoted from 2011/65/EU and (EU) 2015/863 for homogeneous material.
4. Test location: Central Chemical Lab of Intertek Testing Services Ltd., Shanghai
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Test Method:

Test item	Test method	Report Limit
Cadmium (Cd)	With reference to IEC 62321-5 Edition 1.0:2013, by acid digestion until the tested sample was totally dissolved and determined by ICP - OES	2 mg/kg
Lead (Pb)	With reference to IEC 62321-5 Edition 1.0:2013, by acid digestion until the tested sample was totally dissolved and determined by ICP - OES	2 mg/kg
Mercury (Hg)	With reference to IEC 62321-4 Edition 1.1:2017, by acid digestion until the tested sample was totally dissolved and determined by ICP - OES	2 mg/kg
Chromium (VI) (Cr^{6+}) Content	With reference to IEC 62321-7-2 Edition 1.0:2017, by alkaline digestion and determined by UV-VIS Spectrophotometer	10 mg/kg
Polybrominated biphenyls (PBBs) & polybrominated diphenyl ethers (PBDEs)	With reference to IEC 62321-6 Edition 1.0:2015, by solvent extraction and determined by GC/MS and further HPLC confirmation when necessary	5 mg/kg
Phthalates (DEHP, BBP, DBP, DIBP)	With reference to IEC 62321-8 Edition 1.0:2017,by solvent extraction and determined by GC/MS	100 mg/kg

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Test Items, Method and Results:

Test Item: Formaldehyde content test

Test Method: As per ASTM D6007-14 small scale chamber method, formaldehyde content was detected by UV-VIS spectrophotometer.

Test condition:

Chamber type:	0.225 m^3 stainless steel chamber
Climatic conditions:	25°C, 50% R.H.
Air exchange rate:	0.5 h^{-1}
Loading factor:	0.95 m^2/m^3
Test result:	ND

Note:

1. ppm = parts of formaldehyde per million parts air
2. Detection limit = 0.02 ppm
3. ND = Not detected (less than the detection limit)
4. The sample was conditioned at 24±3 °C, 50±5% relative humidity for seven days before the testing.
5. Test location: Central Chemical Lab of Intertek Testing Services Ltd., Shanghai
   Address: Block B, Jinling Business Square, No. 801, Yi Shan Road, Shanghai, China

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Test Items, Method and Results:

Test Item: Resistance to Chemicals

Test Method: ASTM F925-13

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

Note:

1. According to ASTM F925-13, 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.

2. Reagent Kerozene (K1) was cleaned by detergent and others were cleaned by water.

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Appendix A: Sample Received Photo

Front View (Test side)

Back View

Revision:

NO.	Date	Changes	Author	Reviewer
191230016SHF-002	2020-01-17	First issue	Jackie Zhou	Flora Fan