

#### Prepared for:

HANGZHOU MERSCO TECHNOLOGY CO., LTD

Room 907, Huaye Building No. 511, Jianye Road, Changhe Street, Hangzhou 310053, Zhejiang,
China

**Product Name: trampoline** 

MSG-TC-0603B, MSG-TC-0603G,

MSG-TC-0803B, MSG-TC-0803G,

Model Name: MSG-TC-1003B, MSG-TC-1003G,

MSG-TC-1204B, MSG-TC-1204G, MSG-TC-1404B, MSG-TC-1404G

Trade Mark: N/A

Date of Test: From January 26, 2024 to February 01, 2024

Date of Report: February 02, 2024

Report Number: HK2401261849-1RR

#### Prepared by:

Shenzhen HUAK Testing Technology Co., LTD.

1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

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REPORT No.: HK2401261849-1RR Date: February 02, 2024 Page 2 of 31 Applicant: HANGZHOU MERSCO TECHNOLOGY CO., LTD Room 907, Huaye Building No. 511, Jianye Road, Changhe Street, Address: Hangzhou 310053, Zhejiang, China Manufacturer: JINHUA GUANGLIN SPORTS EQUIPMENT CO., LTD No. 999, Shenli Road, Jinhua, Zhejiang, China Address: The following sample was submitted and identified by/on behalf of the client as: Sample Name: trampoline MSG-TC-0603B, MSG-TC-0603G, MSG-TC-0803B, MSG-TC-0803G, Model No.: MSG-TC-1003B, MSG-TC-1003G, MSG-TC-1204B, MSG-TC-1204G, MSG-TC-1404B, MSG-TC-1404G Trade Mark: N/A Tested Age Grade: Over 6 years old Over 6 years old Labeled Age Grading: Over 6 years old Appropriate Age Grade: January 26, 2024 Sample Receiving Date: Testing Period: From January 26, 2024 to February 01, 2024 Results: Please refer to next page(s).

Signed for and on behalf of HUAK

Approved by:\_\_\_\_\_\_Lab Manager



REPORT No.: HK2401261849-1RR Date: February 02, 2024 Page 3 of 31

Information of the Test Laboratory

Shenzhen HUAK Testing Technology Co., Ltd.

Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community,

Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

**Testing Laboratory Authorization:** 

A2LA Accreditation Code is 4781.01.

FCC Designation Number is CN1229.

Canada IC CAB identifier is CN0045.

CNAS Registration Number is L9589.

CPSC Certification Number is 1710

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REPORT No.: HK2401261849-1RR Date: February 02, 2024 Page 4 of 31

**Summary of Test Results:** 

TEST	REQUEST				CONCLUSION
Α	As specified in title 1 products safety com	6, code of federal regul mission of U.S.A	ations, chapter II- co	onsumer	
	1. 16CFR 1500.50.5	1.52.53 Simulating use	and abuse of toys		PASS
	2. 16CFR 1501 Sma	III Objects			NA
	3. 16CFR 1500.48 S	sharp point			PASS
	4. 16CFR 1500.49 S	sharp edge			PASS
B	ASTM F381-16 Star and Labeling of Con	idard Safety Specification	on for Components,	Assembly, Use,	PASS
C STING		303 Ban of Lead Contai ad- Containing Paint	ining Paint and Certa	in Consumer	PASS
n <sup>iG</sup> D	products containing	oduct Safety Improveme Lead; Lead paint rule (a)(2)-Lead in accessibl			PASS
		oduct Safety Improveme	1778-19 ·	108 Prohibition	
Е	•	oducts containing specif 307 Prohibition of Child	•	Care Articles	PASS
	Containing Specified	l Phthalates			
F	- CPSA Section 14(a §2063(a)(5) (CPSA)	a) (5) Tracking Labels fo )	or Children's Product	s (15 USC	PASS



-NA= Not Applicable

### **TEST REPORT**

REPORT No.: HK2401261849-1RR Date: February 02, 2024 Page 5 of 31

Results:

A. As specified in title 16, code of federal regulations, chapter II- consumer products Safety commission of U.S.A

	60000	
Section	Description	Result
ESTING	Normal use testing	Pass
	Abuse testing	HUAK " HUA"
	Impact test	Pass
16CFR	Bite test	Pass
1500.50.51.52.53	Flexure test	Pass
	Torque test (53e)	Pass
	Tension test (53f)	Pass
KTES	Compression test(53g)	Pass
16CFR 1501	Identifying toys and other articles intended for use by Children under 3 years of age which present choking, aspiration, or ingestion hazards because of small parts.	NA
16CFR 1500.48	Technical requirements for determining a sharp point in toys and other articles intended for use by children under 8 years of age.	Pass
16CFR 1500.49	Technical requirements for determining a sharp metal or glass edge in toys and other articles intended for use by children under 8 years of age.	Pass

3 VESTING

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REPORT No.: HK2401261849-1RR Date: February 02, 2024 Page 6 of 31

B. ASTM F381-16 Standard Safety Specification for Components, Assembly, Use, and Labeling of

Applicable Section	Description	Result
HANTESTING  HANTESTING  1.  TESTING	Scope 1.1 This safety specification covers the components, the assembly, and the use of trampolines. 1.2 This specification is delimited in its application to trampolines of (1) a minimum 3300 in. 2 (21 300cm 2), (2) a minimum height of 20 in. (51 cm), (3) intended for of continuous, vertical jumping activities and (4) intended for consumer use. 1.3 This specification is intended (1) to reduce the demonstrated hazards associates of trampolines by consumers; (2) for trampolines used in a home environment a single user; and (3) not to apply to institutional trampolines or trampolines intenwater. Trampolines that adhere to this specification are not recommended for use children under six years of age. 1.4 The values stated in inch-pound units are to be regarded as standard. The valuarentheses are mathematical conversions to SI units that are provided for informand are not considered standard. 1.5 This standard does not purport to address all of the hazards associated with the standard's existence alone will not necessarily prevent injuries. Like other phactivities, trampoline use involves the risk of injury, particularly if the equipment is improperly. 1.6 This standard does not purport to address all of the safety concerns, if any, as its use. It is the responsibility of the user of this standard to establish appropriate health practices and determine the applicability of regulatory limitations prior to use	m bed size of the purpose ated with the at by ded for use of by llues given in nation only trampolines. sysical s used ssociated with
2.	1.7 This specification includes the following sections and selected subsections  Referenced Documents	.6
3.	Terminology	WAK TESTING
4.	Included Components	
TESTING 5	Material and Manufacture	.0
5.1	The provisions in section 5 shall apply to a trampolines assembled as instructed in the owner's manual.	Pass
5.2	Design Requirements	Pass
5.2.1	The trampoline shall be designed such that no part of the frame or legs can be contacted by the bed while bouncing.	Pass
5.2.2	The frame padding shall be of a color which contrasts with the color of trampoline bed	Pass
5.2.3	The suspension system shall be designed so as to protect the performer from injury due to contact with the sharp ends of the trampoline springs.	Pass
5.3	Performance Requirements	Pass
5.3.1	The frame padding where required shall be designed to remain securely attached to the frame when tested tor the requirements of 6.2 and 6.3.	Pass
5.3.2	Materials used in any pad cover frame padding cover attachments, tie down and pad seams normally expose to sunlight shall be made from ultraviolet	Pass

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REPORT No.: HK2401261849-1RR Date: February 02, 2024 Page 7 of 31

Applicable	Description	Result
Section	·	rtoourt
STING	resistant materials and meet the performance requirements of 6.6.	
5.3.3	Material used in the trampoline mat shall meet the requirements specified in Practice F2774	Pass
5.3.4	Except for necessary seams, the frame padding, where required, shall cover the entire top surface of the frame and be wide enough to completely cover the entire top surface of the suspension system and frame when subjected to the tests specified in 6.2	Pass
5.3.5	All information, instructions, and warnings shall be provided in English in addition to any other formats used, for example, graphical, video, multilingual, etc	Pass
5.3.6	When installed in accordance with the manufacturer's instructions, fasteners, lock washers, self-locking nuts, or other locking means shall be provided for all nuts and bolts to protect them from unintentional loosening; self-locking nuts must fully engage with the bolt. Hardware in moving joints shall also be secured against unintentional loosening. Any other fastening systems shall comply with the requirement that effective locking requires two separate and distinct motions for release	Pass
5.3.7	There shall be no accessible sharp points or edges on fasteners when tested in accordance with 16 CFR 1500.48 and 16 CFR 1500.49.	Pass
5.3.8	Bolt ends projecting beyond the face of the nut shall be free of burrs, sharp points, and sharp edges when tested in accordance with 16 CFR 1500.48 and 16 CFR 1500.49. An accessible bolt end shall not extend more than the diameter of the bolt beyond the face of a nut when the nut is tightened to a torque between 20 and 25 lbf-in (2.3 to 2.8 N-m)	Pass
5.3.9	If the exposed bolt end is not free of burrs, sharp points, or sharp edges, or a combination thereof, then the threaded ends of bolts may be covered by smooth, tight-fitting caps that shall resist a torque of 4 lbf-in (0.45 N-m) and a tensile force of 15 lbf (67 N) without loosening	Pass
5.3.10	All fasteners shall be corrosion resistant to a level where no rust is evident after a 24-h salt spray test to Practice B117.	Pass
5.3.11	No welds shall be made to any steel frame or accessory component with a thickness of less than 0.059 in. (1.5 mm)	Pass
5.3.12	No "saddle" welds shall be made to any steel frame or accessory component with a thickness of less than 0.071 in. (1.8 mm). An example of a saddle-welded tee fitting	Pass
5.3.13	All welded joints shall be rendered corrosion resistant to a level where no rust is evident after a 24-h salt spray test to Practice B117	Pass
5.3.14	No component shall be capable of presenting a protrusion hazard during foreseeable use	Pass
5.3.15	There shall be no accessible burrs, sharp points, or sharp edges on tubing when tested in accordance with 16 CFR 1500.48 and 16 CFR 1500.49. End caps or plugs that cannot be removed without the use of tools on tubing may be used to meet this requirement	Pass
6	Performance requirements	NG



REPORT No.: HK2401261849-1RR Date: February 02, 2024 Page 8 of 31

Applicable Section         Description         Result           6.1         Shock Attenuation         Pass           6.2         Drop Test         Pass           6.2.5         Drop test weight and impactor shape         Pass           6.2.6         Drop test procedure         Pass           6.3.1         Padding Attachment System Strength         Pass           6.3.1         Padding Attachment System Strength Test         Pass           6.4.1         Drop test of Trampoline Edge Survivability         Pass           6.4.1         Drop test Procedure for Trampolines         Pass           6.5         Crush and Shear Points         Pass           6.6.0         Ultraviolet (UV) Resistant Material test         Pass           6.6.1         Any pad cover, frame padding, cover attachments, tie down(s), and pad seams normally exposed to sunlight shall be exposed of ultraviolet (UV) resistance using accelerated weathering chambers and shall retain at least 80 % of its original tensile strength.         Pass           6.6.1         Any pad cover, frame padding, cover attachments, tie down(s), and pad seams normally exposed to sunlight shall be exposed of ultraviolet (UV) resistance using accelerated weathering chambers and shall retain at least 80 % of its original tensile strength.         Pass           6.6.2         Specimens to be tested shall be normal tensile test samples from the finished material.         Pass <th>REPORT No.</th> <th>: HK2401261849-1RR</th> <th>8 of 31</th>	REPORT No.	: HK2401261849-1RR	8 of 31
6.2. Drop Test Pass 6.2.6 Drop test weight and impactor shape Pass 6.2.6 Drop test procedure Pass 6.3 Padding Attachment System Strength Pass 6.3.1 Padding Attachment System Strength Test Pass 6.3.1 Padding Attachment System Strength Test Pass 6.4 Drop test of Trampoline Edge Survivability Pass 6.4.1 Drop test Procedure for Trampolines Pass 6.5 Crush and Shear Points Pass 6.6 Ultraviolet (UV) Resistant Material test Pass 6.6 Ultraviolet (UV) Resistant Material test Pass 6.6.1 Any pad cover, frame padding, cover attachments, tie down(s), and pad seams normally exposed to sunlight shall be exposed for ultraviolet (UV) resistance using accelerated weathering chambers and shall retain at least 80 % of its original tensile strength. 6.6.2 Specimens to be tested shall be normal tensile test samples from the finished material. 7 Ensile Test—Test exposed and non-exposed (control samples) tensile test samples, in accordance with Test Method D638, at a testing rate of 2 in. (51 mm)/min. 7 The specimens are to be exposed according to the following procedures: Accelerated Weathering Procedure (Xe-non Lamp Exposure). The test procedure shall be in accordance with AATCC Method 169, except the following deviations shall apply: 7 The apparatus shall be equipped with an automatic light monitor and shall be repeated until the total energy exposure is equal to 500 kJ/m2 at 340 nm (or 61 MJ/m 2 at 300 nm — 400 nm), which is approximately 500 h exposure in the test apparatus 7 The glass filter combination shall be a borosilicate type "S" filter in the inner position and a borosilicate type "S" in the outer position. Alternate filter combinations are acceptable, provided that the equipment manufacturer provides a letter certifying that the irradiance levels are comparable to those specified within 610 % 8 The Irradiance levels shall be 50 6 5 % during the light cycle and not lower than Pass	Applicable Section	Description	Result
6.2.5 Drop test weight and impactor shape 6.2.6 Drop test procedure 6.3 Padding Attachment System Strength 6.3 Padding Attachment System Strength Test 6.4 Drop test of Trampoline Edge Survivability 6.4.1 Drop test of Trampoline Edge Survivability 6.4.1 Drop test Procedure for Trampolines 6.5 Crush and Shear Points 6.6 Ultraviolet (UV) Resistant Material test 6.6 Any pad cover, frame padding, cover attachments, tie down(s), and pad seams normally exposed to sunlight shall be exposed for ultraviolet (UV) resistance using accelerated weathering chambers and shall retain at least 80 % of its original tensile strength. 6.6.2 Specimens to be tested shall be normal tensile test samples from the finished material. 6.6.3 samples, in accordance with Test Method D638, at a testing rate of 2 in. (51 mm)/min. 6.6.4 The specimens are to be exposed according to the following procedures: Accelerated Weathering Procedure (Xe-non Lamp Exposure). The test procedure shall be in accordance with AATCC Method 169, except the following deviations shall apply: 6.6.4 The apparatus shall be equipped with an automatic light monitor and shall be capable of automatically controlling irradiance, temperature, and humidity. 6.6.7 The apparatus shall be equipped with an automatic light monitor and shall be repeated until the total energy exposure is equal to 500 kJ/m2 at 340 nm (or 61 MJ/m 2 at 300 nm – 400 nm), which is approximately 500 h exposure in the test apparatus 6.6.1 The irradiance level shall be either: 0.40 6 0.01 W/m 2 band pass at 340 nm, or 46 6 1.0 W/m2 at 300 nm – 400 nm 6.6.1 The irradiance level shall be a borosilicate type "S" filter in the inner position and a borosilicate type "S" in the outer position. Alternate filter combinations are acceptable, provided that the equipment manufacturer provides a letter certifying that the irradiance levels are comparable to those specified within 610 % 6.6.1 The relative humidity shall be 50 6 5 % during the light cycle and not lower than	6.1	Shock Attenuation	Pass
6.2.6 Drop test procedure Pass 6.3 Padding Attachment System Strength Pass 6.3.1 Padding Attachment System Strength Test Pass 6.4 Drop test of Trampoline Edge Survivability Pass 6.4 Drop test of Trampoline Edge Survivability Pass 6.5 Crush and Shear Points Pass 6.6 Ultraviolet (UV) Resistant Material test Pass 6.6 Ultraviolet (UV) Resistant Material test Pass 6.6.1 In page 20 page 20 pass 6.6.2 Any pad cover, frame padding, cover attachments, tie down(s), and pad seams normally exposed to sunlight shall be exposed for ultraviolet (UV) resistance using accelerated weathering chambers and shall retain at least 80 % of its original tensile strength. 6.6.2 Specimens to be tested shall be normal tensile test samples from the finished material. 7 Tensile Test—Test exposed and non-exposed (control samples) tensile test samples in accordance with Test Method D638, at a testing rate of 2 in. (51 mm)/min. 8 The specimens are to be exposed according to the following procedures: Accelerated Weathering Procedure (Xe-non Lamp Exposure). The test procedure shall be in accordance with AATCC Method 169, except the following deviations shall apply: 9 The apparatus shall be equipped with an automatic light monitor and shall be capable of automatically controlling irradiance, temperature, and humidity. 9 The exterior (face) side of the cloth shall be exposed to the light source. The weathering test cycle shall be 40 min of light, 20 min of light with water spray on the fabric face, 60 min of light, 60 min of darkness. The test cycle shall be repeated until the total energy exposure is equal to 500 kJ/m2 at 340 nm (or 61 MJ/m 2 at 300 nm – 400 nm). which is approximately 500 h exposure in the test apparatus 10 The irradiance level shall be either: 0.40 6 0.01 W/m 2 band pass at 340 nm, or 46 6 1.0 W/m2 at 300 nm – 400 nm 11 The jass filter combination shall be a borosilicate type "S" filter in the inner position and a borosilicate type "S" in the outer position. Alternate filter combinations are acceptable, provided that the equipm	6.2	Drop Test	Pass
6.3 Padding Attachment System Strength Pass 6.3.1 Padding Attachment System Strength Test Pass 6.4 Drop test of Trampoline Edge Survivability Pass 6.4.1 Drop test Procedure for Trampolines Pass 6.5 Crush and Shear Points Pass 6.6 Ultraviolet (UV) Resistant Material test Pass 6.6 Ultraviolet (UV) Resistant Material test Pass 6.6.1 Any pad cover, frame padding, cover attachments, tie down(s), and pad seams normally exposed to sunlight shall be exposed for ultraviolet (UV) resistance using accelerated weathering chambers and shall retain at least 80 % of its original tensile strength. 6.6.2 Specimens to be tested shall be normal tensile test samples from the finished material. 7 Tensile Test— Test exposed and non-exposed (control samples) tensile test samples, in accordance with Test Method D638, at a testing rate of 2 in. (51 mm)/min. 7 The specimens are to be exposed according to the following procedures: Accelerated Weathering Procedure (Xe-non Lamp Exposure). The test procedure shall be in accordance with AATCC Method 169, except the following deviations shall apply: 7 The apparatus shall be equipped with an automatic light monitor and shall be capable of automatically controlling irradiance, temperature, and humidity. 8 The exterior (face) side of the cloth shall be exposed to the light source. The weathering test cycle shall be 40 min of light, 20 min of light with water spray on the fabric face, 60 min of light, 60 min of darkness. The test cycle shall be repeated until the total energy exposure is equal to 500 kJ/m2 at 340 m m (or 61 MJ/m 2 at 300 nm – 400 nm), which is approximately 500 h exposure in the test apparatus 9 The glass filter combination shall be a borosilicate type "S" filter in the inner position and a borosilicate type "S" in the outer position. Alternate filter combinations are acceptable, provided that the equipment manufacturer provides a letter certifying that the irradiance levels are comparable to those specified within 610 % 1 The Irradiance Irradiance Irradiance Irradiance Irradianc	6.2.5	Drop test weight and impactor shape	Pass
6.3.1 Padding Attachment System Strength Test  6.4 Drop test of Trampoline Edge Survivability  6.4.1 Drop test Procedure for Trampolines  6.5 Crush and Shear Points  6.6 Ultraviolet (UV) Resistant Material test  Any pad cover, frame padding, cover attachments, tie down(s), and pad seams normally exposed to sunlight shall be exposed for ultraviolet (UV) resistance using accelerated weathering chambers and shall retain at least 80 % of its original tensile strength.  6.6.2 Specimens to be tested shall be normal tensile test samples from the finished material.  Tensile Test— Test exposed and non-exposed (control samples) tensile test samples, in accordance with Test Method D638, at a testing rate of 2 in. (51 mm)/min.  The specimens are to be exposed according to the following procedures: Accelerated Weathering Procedure (Xe-non Lamp Exposure). The test procedure shall be in accordance with AATCC Method 169, except the following deviations shall apply:  (1) The apparatus shall be equipped with an automatic light monitor and shall be capable of automatically controlling irradiance, temperature, and humidity.  The exterior (face) side of the cloth shall be exposed to the light source. The weathering test cycle shall be 40 min of light, 20 min of light with water spray on the fabric face, 60 min of light, 60 min of darkness. The test cycle shall be repeated until the total energy exposure is equal to 500 kJ/m2 at 340 m (or 61 MJ/m 2 at 300 nm – 400 nm), which is approximately 500 h exposure in the test apparatus  (3) The irradiance level shall be either: 0.40 6 0.01 W/m 2 band pass at 340 nm, or 46 6 1.0 W/m2 at 300 nm – 400 nm  The glass filter combination shall be a borosilicate type "S" filter in the inner position and a borosilicate type "S" in the outer position. Alternate filter combinations are acceptable, provided that the equipment manufacturer provides a letter certifying that the irradiance levels are comparable to those specified within 610 %  The triadiance level shall be 50 6 5 % during the light cycle	6.2.6	Drop test procedure	Pass
6.4.1 Drop test of Trampoline Edge Survivability  6.4.1 Drop test Procedure for Trampolines  6.5 Crush and Shear Points  6.6 Ultraviolet (UV) Resistant Material test  Any pad cover, frame padding, cover attachments, tie down(s), and pad seams normally exposed to sunlight shall be exposed for ultraviolet (UV) resistance using accelerated weathering chambers and shall retain at least 80 % of its original tensile strength.  6.6.2 Specimens to be tested shall be normal tensile test samples from the finished material.  Tensile Test— Test exposed and non-exposed (control samples) tensile test samples, in accordance with Test Method D638, at a testing rate of 2 in. (51 pass mm)/min.  The specimens are to be exposed according to the following procedures: Accelerated Weathering Procedure (Xe-non Lamp Exposure). The test procedure shall be in accordance with AATCC Method 169, except the following deviations shall apply:  (1) The apparatus shall be equipped with an automatic light monitor and shall be capable of automatically controlling irradiance, temperature, and humidity.  The exterior (face) side of the cloth shall be exposed to the light source. The weathering test cycle shall be 40 min of light, 20 min of light with water spray on the fabric face, 60 min of dight, 60 min of darkness. The test cycle shall be repeated until the total energy exposure is equal to 500 kJ/m2 at 340 nm (or 61 MJ/m 2 at 300 nm – 400 nm), which is approximately 500 h exposure in the test apparatus  (3) The irradiance level shall be either: 0.40 6 0.01 W/m 2 band pass at 340 nm, or 46 6 1.0 W/m2 at 300 nm – 400 nm  The glass filter combination shall be a borosilicate type "S" filter in the inner position and a borosilicate type "S" in the outer position. Alternate filter combinations are acceptable, provided that the equipment manufacturer provides a letter certifying that the irradiance levels are comparable to those specified within 610 %  The relative humidity shall be 50 6 5 % during the light cycle and not lower than	6.3	Padding Attachment System Strength	Pass
6.4.1 Drop test Procedure for Trampolines  6.5 Crush and Shear Points  6.6 Ultraviolet (UV) Resistant Material test  Any pad cover, frame padding, cover attachments, tie down(s), and pad seams normally exposed to sunlight shall be exposed for ultraviolet (UV) resistance using accelerated weathering chambers and shall retain at least 80 % of its original tensile strength.  6.6.2 Specimens to be tested shall be normal tensile test samples from the finished material.  Tensile Test— Test exposed and non-exposed (control samples) tensile test samples, in accordance with Test Method D638, at a testing rate of 2 in. (51 mm)/min.  The specimens are to be exposed according to the following procedures: Accelerated Weathering Procedure (Xe-non Lamp Exposure). The test procedure shall be in accordance with AATCC Method 169, except the following deviations shall apply:  (1) The apparatus shall be equipped with an automatic light monitor and shall be capable of automatically controlling irradiance, temperature, and humidity.  The exterior (face) side of the cloth shall be exposed to the light source. The weathering test cycle shall be 40 min of light, 20 min of light with water spray on the fabric face, 60 min of light, 60 min of darkness. The test cycle shall be repeated until the total energy exposure is equal to 500 kJ/m2 at 340 nm (or 61 MJ/m 2 at 300 nm – 400 nm), which is approximately 500 h exposure in the test apparatus  (3) The irradiance level shall be either: 0.40 6 0.01 W/m 2 band pass at 340 nm, or 46 6 1.0 W/m2 at 300 nm – 400 nm  The glass filter combination shall be a borosilicate type "S" filter in the inner position and a borosilicate type "S" in the outer position. Alternate filter combinations are acceptable, provided that the equipment manufacturer provides a letter certifying that the irradiance levels are comparable to those specified within 610 %  The relative humidity shall be 50 6 5 % during the light cycle and not lower than	6.3.1	Padding Attachment System Strength Test	Pass
6.5 Crush and Shear Points Pass 6.6 Ultraviolet (UV) Resistant Material test Any pad cover, frame padding, cover attachments, tie down(s), and pad seams normally exposed to sunlight shall be exposed for ultraviolet (UV) resistance using accelerated weathering chambers and shall retain at least 80 % of its original tensile strength.  Specimens to be tested shall be normal tensile test samples from the finished material.  Tensile Test— Test exposed and non-exposed (control samples) tensile test samples, in accordance with Test Method D638, at a testing rate of 2 in. (51 mm)/min.  The specimens are to be exposed according to the following procedures: Accelerated Weathering Procedure (Xe-non Lamp Exposure). The test procedure shall be in accordance with AATCC Method 169, except the following deviations shall apply:  The apparatus shall be equipped with an automatic light monitor and shall be capable of automatically controlling irradiance, temperature, and humidity.  The exterior (face) side of the cloth shall be exposed to the light source. The weathering test cycle shall be 40 min of light, 20 min of light with water spray on the fabric face, 60 min of light, 60 min of darkness. The test cycle shall be repeated until the total energy exposure is equal to 500 kJ/m2 at 340 nm (or 61 MJ/m 2 at 300 nm – 400 nm), which is approximately 500 h exposure in the test apparatus  The irradiance level shall be either: 0.40 6 0.01 W/m 2 band pass at 340 nm, or 46 6 1.0 W/m2 at 300 nm – 400 nm  The glass filter combination shall be a borosilicate type "S" filter in the inner position and a borosilicate type "S" in the outer position. Alternate filter combinations are acceptable, provided that the equipment manufacturer provides a letter certifying that the irradiance levels are comparable to those specified within 610 %  The relative humidity shall be 50 6 5 % during the light cycle and not lower than	6.4	Drop test of Trampoline Edge Survivability	Pass
Any pad cover, frame padding, cover attachments, tie down(s), and pad seams normally exposed to sunlight shall be exposed for ultraviolet (UV) resistance using accelerated weathering chambers and shall retain at least 80 % of its original tensile strength.  Specimens to be tested shall be normal tensile test samples from the finished material.  Tensile Test—Test exposed and non-exposed (control samples) tensile test samples, in accordance with Test Method D638, at a testing rate of 2 in. (51 mm/min.  The specimens are to be exposed according to the following procedures: Accelerated Weathering Procedure (Xe-non Lamp Exposure). The test procedure shall be in accordance with AATCC Method 169, except the following deviations shall apply:  The apparatus shall be equipped with an automatic light monitor and shall be capable of automatically controlling irradiance, temperature, and humidity.  The exterior (face) side of the cloth shall be exposed to the light source. The weathering test cycle shall be 40 min of light, 20 min of light with water spray on the fabric face, 60 min of light, 60 min of darkness. The test cycle shall be repeated until the total energy exposure is equal to 500 kJ/m2 at 340 nm (or 61 MJ/m 2 at 300 nm – 400 nm), which is approximately 500 h exposure in the test apparatus  The irradiance level shall be either: 0.40 6 0.01 W/m 2 band pass at 340 nm, or 46 6 1.0 W/m2 at 300 nm – 400 nm  The glass filter combination shall be a borosilicate type "S" filter in the inner position and a borosilicate type "S" in the outer position. Alternate filter combinations are acceptable, provided that the equipment manufacturer position and a borosilicate type "S" in the outer position. Alternate filter combinations are acceptable, provided that the equipment manufacturer position and a borosilicate type "S" in the outer position. Alternate filter combinations are acceptable, provided that the equipment manufacturer position and a borosilicate type "S" in the outer position. Alternate filter combinations are accep	6.4.1	Drop test Procedure for Trampolines	Pass
Any pad cover, frame padding, cover attachments, tie down(s), and pad seams normally exposed to sunlight shall be exposed for ultraviolet (UV) resistance using accelerated weathering chambers and shall retain at least 80 % of its original tensile strength.  Specimens to be tested shall be normal tensile test samples from the finished material.  Tensile Test— Test exposed and non-exposed (control samples) tensile test samples, in accordance with Test Method D638, at a testing rate of 2 in. (51 mm)/min.  The specimens are to be exposed according to the following procedures: Accelerated Weathering Procedure (Xe-non Lamp Exposure). The test procedure shall be in accordance with AATCC Method 169, except the following deviations shall apply:  The apparatus shall be equipped with an automatic light monitor and shall be capable of automatically controlling irradiance, temperature, and humidity.  The exterior (face) side of the cloth shall be exposed to the light source. The weathering test cycle shall be 40 min of light, 20 min of light with water spray on the fabric face, 60 min of light, 60 min of darkness. The test cycle shall be repeated until the total energy exposure is equal to 500 kJ/m2 at 340 nm (or 61 MJ/m 2 at 300 nm – 400 nm), which is approximately 500 h exposure in the test apparatus  (3) The irradiance level shall be either: 0.40 6 0.01 W/m 2 band pass at 340 nm, or 46 6 1.0 W/m2 at 300 nm – 400 nm  The glass filter combination shall be a borosilicate type "S" filter in the inner position and a borosilicate type "S" in the outer position. Alternate filter combinations are acceptable, provided that the equipment manufacturer provides a letter certifying that the irradiance levels are comparable to those specified within 610 %  The relative humidity shall be 50 6 5 % during the light cycle and not lower than	6.5	Crush and Shear Points	Pass
normally exposed to sunlight shall be exposed for ultraviolet (UV) resistance using accelerated weathering chambers and shall retain at least 80 % of its original tensile strength.  Specimens to be tested shall be normal tensile test samples from the finished material.  Tensile Test— Test exposed and non-exposed (control samples) tensile test samples, in accordance with Test Method D638, at a testing rate of 2 in. (51 mm)/min.  The specimens are to be exposed according to the following procedures: Accelerated Weathering Procedure (Xe-non Lamp Exposure). The test procedure shall be in accordance with AATCC Method 169, except the following deviations shall apply:  The apparatus shall be equipped with an automatic light monitor and shall be capable of automatically controlling irradiance, temperature, and humidity.  The exterior (face) side of the cloth shall be exposed to the light source. The weathering test cycle shall be 40 min of light, 20 min of light with water spray on the fabric face, 60 min of light, 60 min of darkness. The test cycle shall be repeated until the total energy exposure is equal to 500 kJ/m2 at 340 nm (or 61 MJ/m 2 at 300 nm – 400 nm), which is approximately 500 h exposure in the test apparatus  (3) The irradiance level shall be either: 0.40 6 0.01 W/m 2 band pass at 340 nm, or 46 6 1.0 W/m2 at 300 nm – 400 nm  The glass filter combination shall be a borosilicate type "S" filter in the inner position and a borosilicate type "S" in the outer position. Alternate filter combinations are acceptable, provided that the equipment manufacturer pass provides a letter certifying that the irradiance levels are comparable to those specified within 610 %  The relative humidity shall be 50 6 5 % during the light cycle and not lower than	6.6	Ultraviolet (UV) Resistant Material test	Pass
material.  Tensile Test— Test exposed and non-exposed (control samples) tensile test samples, in accordance with Test Method D638, at a testing rate of 2 in. (51 mm)/min.  The specimens are to be exposed according to the following procedures: Accelerated Weathering Procedure (Xe-non Lamp Exposure). The test procedure shall be in accordance with AATCC Method 169, except the following deviations shall apply:  (1) The apparatus shall be equipped with an automatic light monitor and shall be capable of automatically controlling irradiance, temperature, and humidity.  The exterior (face) side of the cloth shall be exposed to the light source. The weathering test cycle shall be 40 min of light, 20 min of light with water spray on the fabric face, 60 min of light, 60 min of darkness. The test cycle shall be repeated until the total energy exposure is equal to 500 kJ/m2 at 340 nm (or 61 MJ/m 2 at 300 nm – 400 nm), which is approximately 500 h exposure in the test apparatus  (3) The irradiance level shall be either: 0.40 6 0.01 W/m 2 band pass at 340 nm, or 46 6 1.0 W/m2 at 300 nm – 400 nm  The glass filter combination shall be a borosilicate type "S" filter in the inner position and a borosilicate type "S" in the outer position. Alternate filter combinations are acceptable, provided that the equipment manufacturer provides a letter certifying that the irradiance levels are comparable to those specified within 610 %  The relative humidity shall be 50 6 5 % during the light cycle and not lower than	6.6.1	normally exposed to sunlight shall be exposed for ultraviolet (UV) resistance using accelerated weathering chambers and shall retain at least 80 % of its	Pass
samples, in accordance with Test Method D638, at a testing rate of 2 in. (51 mm)/min.  The specimens are to be exposed according to the following procedures: Accelerated Weathering Procedure (Xe-non Lamp Exposure). The test procedure shall be in accordance with AATCC Method 169, except the following deviations shall apply:  (1) The apparatus shall be equipped with an automatic light monitor and shall be capable of automatically controlling irradiance, temperature, and humidity.  The exterior (face) side of the cloth shall be exposed to the light source. The weathering test cycle shall be 40 min of light, 20 min of light with water spray on the fabric face, 60 min of light, 60 min of darkness. The test cycle shall be repeated until the total energy exposure is equal to 500 kJ/m2 at 340 nm (or 61 MJ/m 2 at 300 nm – 400 nm), which is approximately 500 h exposure in the test apparatus  (3) The irradiance level shall be either: 0.40 6 0.01 W/m 2 band pass at 340 nm, or 46 6 1.0 W/m2 at 300 nm – 400 nm The glass filter combination shall be a borosilicate type "S" filter in the inner position and a borosilicate type "S" in the outer position. Alternate filter combinations are acceptable, provided that the equipment manufacturer provides a letter certifying that the irradiance levels are comparable to those specified within 610 %  The relative humidity shall be 50 6 5 % during the light cycle and not lower than	6.6.2	material.	Pass
Accelerated Weathering Procedure (Xe-non Lamp Exposure). The test procedure shall be in accordance with AATCC Method 169, except the following deviations shall apply:  The apparatus shall be equipped with an automatic light monitor and shall be capable of automatically controlling irradiance, temperature, and humidity.  The exterior (face) side of the cloth shall be exposed to the light source. The weathering test cycle shall be 40 min of light, 20 min of light with water spray on the fabric face, 60 min of light, 60 min of darkness. The test cycle shall be repeated until the total energy exposure is equal to 500 kJ/m2 at 340 nm (or 61 MJ/m 2 at 300 nm – 400 nm), which is approximately 500 h exposure in the test apparatus  The irradiance level shall be either: 0.40 6 0.01 W/m 2 band pass at 340 nm, or 46 6 1.0 W/m2 at 300 nm – 400 nm  The glass filter combination shall be a borosilicate type "S" filter in the inner position and a borosilicate type "S" in the outer position. Alternate filter combinations are acceptable, provided that the equipment manufacturer provides a letter certifying that the irradiance levels are comparable to those specified within 610 %  The relative humidity shall be 50 6 5 % during the light cycle and not lower than	6.6.3	samples, in accordance with Test Method D638, at a testing rate of 2 in. (51	Pass
The apparatus shall be equipped with an automatic light monitor and shall be capable of automatically controlling irradiance, temperature, and humidity.  The exterior (face) side of the cloth shall be exposed to the light source. The weathering test cycle shall be 40 min of light, 20 min of light with water spray on the fabric face, 60 min of light, 60 min of darkness. The test cycle shall be repeated until the total energy exposure is equal to 500 kJ/m2 at 340 nm (or 61 MJ/m 2 at 300 nm – 400 nm), which is approximately 500 h exposure in the test apparatus  The irradiance level shall be either: 0.40 6 0.01 W/m 2 band pass at 340 nm, or 46 6 1.0 W/m2 at 300 nm – 400 nm  The glass filter combination shall be a borosilicate type "S" filter in the inner position and a borosilicate type "S" in the outer position. Alternate filter combinations are acceptable, provided that the equipment manufacturer provides a letter certifying that the irradiance levels are comparable to those specified within 610 %  The relative humidity shall be 50 6 5 % during the light cycle and not lower than	6.6.4	Accelerated Weathering Procedure (Xe-non Lamp Exposure). The test procedure shall be in accordance with AATCC Method 169, except the following	Pass
weathering test cycle shall be 40 min of light, 20 min of light with water spray on the fabric face, 60 min of light, 60 min of darkness. The test cycle shall be repeated until the total energy exposure is equal to 500 kJ/m2 at 340 nm (or 61 MJ/m 2 at 300 nm – 400 nm), which is approximately 500 h exposure in the test apparatus  (3) The irradiance level shall be either: 0.40 6 0.01 W/m 2 band pass at 340 nm, or 46 6 1.0 W/m2 at 300 nm – 400 nm  The glass filter combination shall be a borosilicate type "S" filter in the inner position and a borosilicate type "S" in the outer position. Alternate filter combinations are acceptable, provided that the equipment manufacturer provides a letter certifying that the irradiance levels are comparable to those specified within 610 %  The relative humidity shall be 50 6 5 % during the light cycle and not lower than	(1)	The apparatus shall be equipped with an automatic light monitor and shall be	Pass
The glass filter combination shall be a borosilicate type "S" filter in the inner position and a borosilicate type "S" in the outer position. Alternate filter combinations are acceptable, provided that the equipment manufacturer provides a letter certifying that the irradiance levels are comparable to those specified within 610 %  The relative humidity shall be 50 6 5 % during the light cycle and not lower than	(2)	weathering test cycle shall be 40 min of light, 20 min of light with water spray on the fabric face, 60 min of light, 60 min of darkness. The test cycle shall be repeated until the total energy exposure is equal to 500 kJ/m2 at 340 nm (or 61 MJ/m 2 at 300 nm – 400 nm), which is approximately 500 h exposure in the test	
position and a borosilicate type "S" in the outer position. Alternate filter  (4) combinations are acceptable, provided that the equipment manufacturer provides a letter certifying that the irradiance levels are comparable to those specified within 610 %  The relative humidity shall be 50 6 5 % during the light cycle and not lower than	(3)	46 6 1.0 W/m2 at 300 nm – 400 nm	Pass
	(4)	position and a borosilicate type "S" in the outer position. Alternate filter combinations are acceptable, provided that the equipment manufacturer provides a letter certifying that the irradiance levels are comparable to those specified within 610 %	Pass
	(5)		Pass



REPORT No.: HK2401261849-1RR Date: February 02, 2024 Page 9 of 31

Applicable Section	Description	Result
(6)	The control set points shall be as follows:	Pass
(7)	The test specimens shall fit the specimen rack of the apparatus with no wrinkles or gaps. The test specimen shall be mounted on the outside of the rack with the use of appropriate stainless steel spring clips. After the required exposure period, the specimens shall be removed from the apparatus and allowed to dry and condition at standard atmospheric conditions. Then, test specimens for each required test shall be cut and tested appropriately	Pass
6.7	Static Load tests	Pass
6.7.1	Static Load test on Trampoline Bed	Pass
6.7.2	Static Load test on Trampoline Frame	Pass
6.7.3	Static Load base shape	Pass
6.7.4	Procedure for Static Load Tests	Pass
6.8	Maximum User Weight	Pass
7.	Information Packet	Pass
7.1	Packet Marking and Contents:	Pass
7.2	Assembly and Installation Instructions:	Pass
7.3	Care and Maintenance Instructions:	Pass
7.4	Warning Information:	Pass
7.5	Use Instructions:	Pass
8	Product Marking	Pass
8.1	Identification	Pass
8.2	On-Trampoline Warnings	Pass
8.3	Instruction Sign	Pass
9	Packaging and Package Marking	Pass
9.1	Packaging on principal display panels, point-of-purchase displays, and promotional literature shall be clearly marked with the following information:	Pass
9.1.1	Trampolines over 20 in. (51 cm) tall are not recommended for children under 6 years of age.	Pass
9.1.2	It is strongly recommended that the customer purchase, install and maintain an enclosure that complies with Safety Specification F2225.	Pass
10	Access Devices	Pass
10.1	Trampoline Ladders:	Pass
10.2	Ladder Warning:	Pass

--NA= Not Applicable

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REPORT No.: HK2401261849-1RR Date: February 02, 2024 Page 10 of 31

Tested part(s):

Seq. no	Part(s) name	Sample description
(ESTING)	Red coating (Silver metal)	Zipper head
2	Yellow plastic	Zipper tooth
3	Black plastic net	Outer cover

C. USA 16CFR Part 1303 Ban of Lead Containing Paint and Certain Consumer Products Bearing Lead-Containing Paint

**Test method:** With reference to CPSC-CH-E1003-09.1, sample was digested with acid mixture and analyzed by inductively coupled plasma atomic emission spectrometer (ICP-AES)

Item	Unit	MDL	Results 1	Limit
Lead Content (Pb)	mg/kg	5	N.D.	90
Conclusion	1	TEST NG	Pass	1

D. USA Consumer Product Safety Improvement Act (CPSIA) Sec.101 Children's products containing Lead; Lead paint rule

#### (1) Substrate Materials

**Test method:** With reference to CPSC-CH-E1001-08.3; CPSC-CH-E1002-08.3, by acid digestion and analysis was performed by inductively coupled plasma atomic emission spectrometer (ICP-AES).

lto	l lmi4	MDI	Res	Limit	
ltem	Unit	MDL	JUANTE	2+3	Limit
Lead Content (Pb)	mg/kg	5	N.D.	N.D.	100
Conclusion	1	OK TESTING	Pass	Pass	1

#### (2) Paint and similar surface coating material

**Test method:** With reference to CPSC-CH-E1003-09.1, sample was digested with acid mixture and analyzed by inductively coupled plasma atomic emission spectrometer (ICP-AES)

ltom	Unit MDL		Results	Limit	
Item			1		
Lead Content (Pb)	mg/kg	5 ESTING	N.D.	90	
Conclusion	1	MININI I	Pass	N HUM	



REPORT No.: HK2401261849-1RR Date: February 02, 2024 Page 11 of 31

E. USA Consumer Product Safety Improvement Act (CPSIA) Sec.108 Prohibition on sale of certain products containing specified phthalates

USA 16CFR Part 1307 Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates

**Test method**: With reference to CPSC-CH-C1001-09.4, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS).

lá a sa	II. II		Results	1.116
Item	Unit	MDL	2+3	Limit
Dibutyl Phthalate (DBP)	mg/kg	30	N.D.	1000
Benzylbutyl Phthalate (BBP)	mg/kg	30	N.D.	1000
Bis-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	30	TESTING N.D.	1000
Diisononyl Phthalate (DINP)	mg/kg	100	N.D.	1000
Di-isobutyl Phthalate (DIBP)	mg/kg	100	N.D.	1000
Dicyclohexyl Phthalate (DCHP)	mg/kg	100	N.D.	1000
Di-n-hexyl Phthalate (DHEXP)	mg/kg	100	N.D.	1000
Di-n-pentyl Phthalates (DPENP)	mg/kg	100	N.D.	1000
Conclusion	1	uG I	Pass	mic I com

#### Note:

- N.D. =Not Detected or less than MDL.
- MDL=Method Detection Limit.
- NA= Not Applicable
- %=Percentage by weight.
- 0.1%=1000mg/kg, mg/kg=ppm.

"+"=The test result is obtained from composite testing on materials linked with "+" mark, it is possible

that individual test result can be higher if materials are tested separately. This had been taken in account in the conclusion of this report.

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REPORT No.: HK2401261849-1RR Date: February 02, 2024 Page 12 of 31

#### F. CPSA Section 14(a) (5) Tracking Labels for Children's Products (15 USC §2063(a)(5) (CPSA))

Applicable Section	Description	Result
(a)(5) (A)	Effective 1 year after the date of enactment of the Consumer Product Safety Improvement Act of 2008, the manufacturer of a children's product shall place permanent, distinguishing marks on the product and its packaging, to the extent practicable, that will enable—	Pass
(i)	the manufacturer to ascertain the location and date of production of the product, cohort information (including the batch, run number, or other identifying characteristic), and any other information determined by the manufacturer to facilitate ascertaining the specific source of the product by reference to those marks; and	Pass
www.resmin	the ultimate purchaser to ascertain the manufacturer or private labeler, location and date of production of the product, and cohort information (including the batch, run number, or other identifying characteristic).	Pass
(B)	The Commission may, by regulation, exclude a specific product or class of products from the requirements in subparagraph (A) if the Commission determines that it is not practicable for such product or class of products to bear the marks required by such subparagraph. The Commission may establish alternative requirements for any product or class of products excluded under the preceding sentence consistent with the purposes	NA NA
HUARTE (b)	described in clauses (i) and (ii) of subparagraph (A).  The Commission may by rule prescribe reasonable testing programs for any product which is subject to a consumer product safety rule under this Act, or a similar rule, regulation, standard, or ban under any other Act enforced by the Commission, and for which a certificate is required under subsection (a). Any test or testing program on the basis of which a certificate is issued under subsection (a) may, at the option of the person required to certify the product, be conducted by an independent third party qualified to perform such tests, unless the Commission, by rule, requires testing by an independent third party for a particular rule, regulation, standard, or ban, or for a particular class of products.	Pass
(c)	The Commission may by rule require the use and prescribe the form and content of labels which contain the following information (or that portion of it specified in the rule) —	Pass
(1)	The date and place of manufacture of any consumer product.	Pass
(2)	The cohort information (including the batch, run number, or other identifying characteristic) of the product.	Pass
(3)	A suitable identification of the manufacturer of the consumer product, unless the product bears a private label in which case it shall identify the private labeler and shall also contain a code mark which will permit the seller of such product to identify the manufacturer thereof to the purchaser upon his request.	Pass
(4)	In the case of a consumer product subject to a consumer product safety rule, a certification that the product meets all applicable consumer product safety standards and a specification of the standards which are applicable. Such labels, where practicable, may be required by the Commission to be	Pass

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REPORT No.: HK2401261849-1RR Date: February 02, 2024 Page 13 of 31

Applicable Section	Description	Result
TESTING	permanently marked on or affixed to any such consumer product. The Commission may, in appropriate cases, permit information required under paragraphs (1) and (2) of this subsection to be coded.	STAIG
(d)	REQUIREMENT FOR ADVERTISEMENTS.—No advertisement for a consumer product or label or packaging of such product may contain a reference to a consumer product safety rule or a voluntary consumer product safety standard unless such product conforms with the applicable safety requirements of such rule or standard.	Pass
(e)	WITHDRAWAL OF ACCREDITATION-	Pass
(f)	DEFINITIONSIn this section	Pass
TESTING (B)	REQUIREMENTS FOR CERTIFICATES (1) IDENTIFICATION OF ISSUER AND CONFORMITY ASSESSMENT BODYEvery certificate required under this section shall identify the manufacturer or private labeler issuing the certificate and any third party conformity assessment body on whose testing the certificate depends. The certificate shall include, at a minimum, the date and place of manufacture, the date and place where the product was tested, each party's name, full mailing address, telephone number, and contact information for the individual	Pass
(h)	responsible for maintaining records of test results.  RULE OF CONSTRUCTION.	Pass
(i)	ADDITIONAL REGULATIONS FOR THIRD PARTY TESTING	Pass

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#### \*\* Modified History \*\*

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	2024/02/02	Jason Zhou
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	TING	TING	



REPORT No.: HK2401261849-1RR Date: February 02, 2024 Page 14 of 31

**Photograph of Sample** 







REPORT No.: HK2401261849-1RR Date: February 02, 2024 Page 15 of 31



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REPORT No.: HK2401261849-1RR Date: February 02, 2024 Page 16 of 31





REPORT No.: HK2401261849-1RR Date: February 02, 2024 Page 17 of 31





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REPORT No.: HK2401261849-1RR Date: February 02, 2024 Page 18 of 31





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REPORT No.: HK2401261849-1RR Date: February 02, 2024 Page 19 of 31







REPORT No.: HK2401261849-1RR Date: February 02, 2024 Page 20 of 31







REPORT No.: HK2401261849-1RR Date: February 02, 2024 Page 21 of 31







REPORT No.: HK2401261849-1RR Date: February 02, 2024 Page 22 of 31







REPORT No.: HK2401261849-1RR Date: February 02, 2024 Page 23 of 31





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REPORT No.: HK2401261849-1RR Date: February 02, 2024 Page 24 of 31





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REPORT No.: HK2401261849-1RR Date: February 02, 2024 Page 25 of 31







REPORT No.: HK2401261849-1RR Date: February 02, 2024 Page 26 of 31







REPORT No.: HK2401261849-1RR Date: February 02, 2024 Page 27 of 31







REPORT No.: HK2401261849-1RR Date: February 02, 2024 Page 28 of 31







REPORT No.: HK2401261849-1RR Date: February 02, 2024 Page 29 of 31







REPORT No.: HK2401261849-1RR Date: February 02, 2024 Page 30 of 31







REPORT No.: HK2401261849-1RR Date: February 02, 2024 Page 31 of 31



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\*\*\* End of Report \*\*\*

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