

Prepared for:

HANGZHOU MERSCO TECHNOLOGY CO., LTD

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

Product Name: Mini Trampoline

Model Name: MSG-1001D-Printed

Trade Mark: N/A

Date of Test: From October 22, 2024 to November 07, 2024

Date of Report: November 07, 2024

Report Number: HK24102218003-1RR-R01

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

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REPORT No.: H	K24102218003-1RR-R01	Date: November 07, 2024	Page 2 of 30
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Applicant: HANGZHOU MERSCO TECHNOLOGY CO., LTD

Address: Room 907, Huaye Building No. 511, Jianye Road, Changhe Street,

Hangzhou 310053, Zhejiang, China

Manufacturer: HANGZHOU MERSCO TECHNOLOGY CO., LTD

Address: Room 907, Huaye Building No. 511, Jianye Road, Changhe Street,

Hangzhou 310053, Zhejiang, China

The following sample was submitted and identified by/on behalf of the client as:

Sample Name: Mini Trampoline

Model No.: MSG-1001D-Printed

Trade Mark: N/A

Tested Age Grade: 1-6 years old

Labeled Age Grading: 1-6 years old

Appropriate Age Grade: 1-6 years old

Sample Receiving Date: October 22, 2024

Testing Period: From October 22, 2024 to November 07, 2024

Results: Please refer to next page(s).

Signed for and on behalf of HUAK

Approved by:

Lab Manager



REPORT No.: HK24102218003-1RR-R01 Date: November 07, 2024 Page 3 of 30

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



REPORT No.: HK24102218003-1RR-R01 Date: November 07, 2024 Page 4 of 30

Summary of Test Results:

TEST	REQUEST	CONCLUSION	1
A	As specified in title 16, code of federal regulations, chapter II- consum products safety commission of U.S.A	ner Marketstille	
	1. 16CFR 1500.50.51.52.53 Simulating use and abuse of toys	PASS	
	2. 16CFR 1501 Small Objects	PASS	
	3. 16CFR 1500.48 Sharp point	PASS	
	4. 16CFR 1500.49 Sharp edge	PASS	
B	ASTMF381-16 Standard Safety Specification for Components, Assem and Labeling of Consumer Trampolines	nbly, Use, PASS	
JAK C STING	ASTM F2225-15(2020) Standard Safety Specification for Consumer Tr Enclosures	rampoline PASS	
D	ASTM F963-23 Standard Consumer Safety Specification for Toy Safety	ty White	
	1Mechanical and Physical Tests	PASS	
	2Section 4.2 Flammability Tests	PASS	
	3Section 4.3.5.1 Heavy Metals Content in Paint and Similar Surface-Materials	-coating PASS	
	4Section 4.3.5.2 Heavy Metals Content in Toy Substrate Materials	NA TESTING	
	5Section 4.3.8 Phthalates	PASS	
JAKESTING	- USA 16CFR Part 1303 Ban of Lead Containing Paint and Certain Cor Products Bearing Lead- Containing Paint	nsumer NA	
F	 USA Consumer Product Safety Improvement Act (CPSIA) Sec.101 C products containing Lead; Lead paint rule CPSIA section 101(a)(2)-Lead in accessible substrate materials and 	PASS	
	§ 1278a Lead in Children's products- USA Consumer Product Safety Improvement Act (CPSIA) Sec.108 Pt	Prohibition	
G	on sale of certain products containing specified phthalates - USA 16CFR Part 1307 Prohibition of Children's Toys and Child Care Containing Specified Phthalates	PASS	
H HUAR	- CPSA Section 14(a) (5) Tracking Labels for Children's Products (15 §2063(a)(5) (CPSA))	USC PASS	



REPORT No.: HK24102218003-1RR-R01 Date: November 07, 2024 Page 5 of 30

Results:

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

Section	Description	Result
STNG	Normal use testing	Pass
HUAK TEE	Abuse testing	HINDE HINDE
	Impact test	Pass
16CFR	Bite test	Pass
1500.50.51.52.53	Flexure test	Pass
HO.	Torque test (53e)	Pass
ESTING	Tension test (53f)	Pass
(TES	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.	Pass
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

--NA= Not Applicable

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REPORT No.: HK24102218003-1RR-R01 Date: November 07, 2024 Page 6 of 30

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

Applicable Section	Description	Result
HUANTESTING HUANTESTING 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 continuous, vertical jumping activities and (4) intended for consumer use. 1.3 This specification is intended (1) to reduce the demonstrated hazards associated 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 interwater. 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 vaparentheses 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 practivities, 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, a 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 the following at the safety and safety the safety and safety	m bed size of the purpose ated with the nt by nded for use o e by alues given in mation only trampolines. The nysical is used associated with safety and
2.	1.7 This specification includes the following sections and selected subsections Referenced Documents	-m/G
_{ним} ТЗ.	Terminology	HUAKTES
4.	Included Components	
TESTING 5	Material and Manufacture	G
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.: HK24102218003-1RR-R01 Date: November 07, 2024 Page 7 of 30

Applicable Section	Description	Result
-cTING	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	



REPORT No.: HK24102218003-1RR-R01 Date: November 07, 2024 Page 8 of 30

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	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	NA
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.	MA NA
6.6.2	Specimens to be tested shall be normal tensile test samples from the finished material.	NA
6.6.3	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.	NA
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:	NA
(1)	The apparatus shall be equipped with an automatic light monitor and shall be capable of automatically controlling irradiance, temperature, and humidity.	NA
(2)	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	NA NA
(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	NA
(4)	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 %	NA N
(5)	The relative humidity shall be 50 6 5 % during the light cycle and not lower than 95 % during the dark cycle.	NA



REPORT No.: HK24102218003-1RR-R01 Date: November 07, 2024 Page 9 of 30

	: HK24102218003-1RR-R01 Date: November 07, 2024 P	age 9 of 30
Applicable Section	Description	Result
(6)	The control set points shall be as follows:	NA
(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	NA NA
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
_o 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



REPORT No.: HK24102218003-1RR-R01 Date: November 07, 2024 Page 10 of 30

Applicable Section	Description	Result
HUAN TESTING HUAN TESTING 1. TESTING	Scope 1.1 This safety specification covers the components, assembly, use, labeling, and prequirements of consumer trampoline enclosures (see Safety Specification F381). 1.2 This specification is applicable to trampoline enclosures to be sold as an access packaged with trampolines of (1) a minimum bed size of 3300 in. 2 (2.1 m 2), (2) and height of 20 in. (510 mm), (3) intended for the purpose of continuous, vertical jumpin and (4) intended for consumer use. 1.3 This specification includes the following sections and selected subsections 1.4 The specification does not purport to address all of the hazards that may be associated with trampolines or trampoline enclosures, or both. The standard's existence alone will not prevent injuries. Like other physical activities, trampoline use involves the risk of injurification that it is used improperly. Similarly, the use of a trampoline enclosure alor necessarily prevent all injuries. 1.5 The values stated in inch-pound units are to be regarded as standard. The value parentheses are mathematical conversions to SI units that are provided for informationary not considered standard. 1.6 The following precautionary caveat pertains only to the test methods portion of the specification. This standard does not purport to address all of the safety concerns, if associated with its use. It is the responsibility of the user of this standard to establish safety, health, and environmental practices and determine the applicability of regular limitations prior to use. 1.7 This international standard was developed in accordance with internationally recordingles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the second constant of the second	ory to or minimum ag activities, with ot necessarily ary, particularline will not es given in ion only and this any appropriate tory
2.	Trade Organization Technical Barriers to Trade (TBT) Committee Referenced Documents	" IAK TESTING
3.	Terminology	O HO.
4.	Components	
5.	General Requirements	AK TESTING
5.1	The barrier height shall have the following minimums:	*
5.1.1	For round trampolines with bed diameter at less than 10 ft (2.5 m) – 60 in. (1.5 m).	Pass
5.1.2	For round trampolines with a bed diameter of 10 ft (2.5 m) (or more) – 72 in. (1.8 m).	NA
5.1.3	For rectangular trampolines—one-half the length of the longest bed dimension, but not less than 60 in. (1.5 m) minimum barrier height.	NA
5.2	The enclosure support (frame) system and barrier materials shall be of sufficient strength and rigidity to hold the enclosure barrier in place and withstand the loads outlined in Performance Requirement Test #1.	Pass
5.3	Support attachment system and hardware shall be subject to ready assembly by the original retail consumer and shall meet the requirements set forth in 6.1 (Performance Requirement Test #1).	Pass
		437



REPORT No.: HK24102218003-1RR-R01 Date: November 07, 2024 Page 11 of 30

REPORT No.	: HK24102218003-1RR-R01 Date: November 07, 2024 P	age 11 of 30
Applicable Section	Description	Result
5.4	All fasteners shall be manufactured in accordance with Section 5.4.2 of Guide F1077. All fasteners, connecting, and covering devices shall be inherently corrosion resistant or be provided with corrosion resistant coating.	Pass
5.4.1	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. Hardware in moving joints shall also be secured against unintentional loosening.	Pass
5.4.2	There shall be no accessible sharp points or edges on fasteners. A cut-off bolt end projecting beyond the face of the nut shall be free of burrs, sharp points, and sharp edges. An accessible bolt end shall not extend more than two full threads beyond the face of a nut.	Pass
5.5	Connecting devices such as but not limited to S-hooks and C-hooks shall be properly closed. These connectors are considered closed when there is no gap or space greater than 0.04 in. (1 mm) when measured with a feeler gage.	Pass
5.5.1	S-hook connectors are subject to the following additional requirements: (1) No portion of the closed end of an S-hook upper loop may project beyond the vertical boundary established by the upper loop; (2) an S-hook upper loop may align with, may partially overlap, or may completely overlap the connector body. If the upper loop completely overlaps the connector body, it must not extend past the connector body, or (3) an S-hook lower loop must align with the connector body and not overlap in any way.	Pass
5.6	The enclosure barrier shall be a durable weather resistant fabric suitable for extended outdoor life. Materials used in the barrier and any fabric, cord, or webbing connections supporting the barrier that are normally exposed to sunlight shall be made of ultraviolet (UV) resistant materials.	Pass
5.7	Support (frame) members exposed to contact during foreseeable usage shall be padded. The top end of such support (frame) members shall be capped.	Pass
5.8	The barrier attachment system shall include (1) upper attachment to upright supports (frame), and (2) lower attachment to trampoline bed or trampoline frame top rails. The barrier attachment system shall be of sufficient strength and durability to withstand tearing, deformation or failure as a result of the loads outlined in 6.1 (Performance Requirement Test #1).	Pass
5.9	Enclosure Openings—The enclosure barrier shall include an opening allowing entry and exit of the user from the jumping surface. This opening, when closed according to the manufacturer's instructions, shall be of sufficient strength and durability to withstand, without tearing, deformation or failure, a direct impact of the loads at the point of the opening and 8 in. to the left and to the right of the opening (outlined in 6.1, Performance Requirement Test #1) with no penetration of any portion of the test load beyond the outer edges of the opening or any opening of the barrier itself. If the enclosure barrier opening is overlapped, the opening point is considered the midsection of the overlap.	Pass Pass
6.	Performance Requirements	
6.1	Barrier Impact and Enclosure Support Pole (Frame) Impact Tests— Performance Requirement Test #1 requires four impacts of the maximum	Pass

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REPORT No.	: HK24102218003-1RR-R01 Date: November 07, 2024 P	age 12 of 30
Applicable Section	Description	Result
TESTING	specified user weight applied as a dynamic side load according to the following procedures. Two of the impacts are to be directed at a point on the barrier midway between the support poles (frame) at a height mid distance between the top and bottom of the enclosure barrier. The other two impacts are to be applied against the enclosure support poles (frame) at a height mid-distance between	AK TESTING
MAKTESTING HUAKTESTING	the top and bottom of the enclosure barrier. The impacts against the enclosure barrier and barrier attachment system shall not produce permanent deformation, tearing or breaking of any component of the enclosure barrier and barrier attachment system. The impacts against the enclosure support (frame) shall not produce permanent deformation, tearing or breaking of any component of the enclosure support (frame) or the support (frame) attachment hardware. If the measured angle of an enclosure pole is greater than 10° from its original measured angle after the test, it shall be interpreted as a permanent deformation.	
6.1.1	Procedure for Performance Requirement Test #1—The load shall be of mass equal to the maximum specified user weight. It should be composed of a bag approximately 16 in. (410 mm) in diameter by 36 in. (910 mm) tall, such as a large duffel bag filled with loosely compacted material such as sand. Alternating small bags of sand and wood chips can be used to fill the bag. The center of gravity of the duffel bag should be at the mid-point (approximately 18 in. (460 mm) from the bottom). The dynamic side load shall be applied in a pendulum motion against the enclosure barrier at the specified points (see 6.1).	Pass
6.1.1.1	Secure one side of the trampoline so that the trampoline cannot be moved or cannot slide along the surface on which the trampoline rests.	Pass
6.1.1.2	Suspend the bag (load) on a chain so that the distance to the top of the chain (pivot point) to the center of mass of the bag corresponds to one of the lengths specified in Table 1.	Pass
6.1.1.3	Position the bag (load) so that it hangs against the side of the enclosure barrier at a point midway between the enclosure support poles (frame) at a height middistance between the top and bottom of the enclosure barrier. The pivot point of the pendulum created by the load and chain should be positioned directly above the top of the enclosure barrier. The contact point of the bag (load) to the enclosure barrier should be on the opposite side of the enclosure from the point that secures the trampoline from movement.	Pass
HUNKTESTING	Measure and record the angle of the enclosure pole nearest the intended barrier impact point, at the midpoint between the top of the enclosure pole and the uppermost point of connection to the trampoline frame with an angle finder designed for use on tubular/round surfaces. (If there are 2 enclosure poles at	HUANTESTING (
(1)	the same distance from the intended barrier impact point, select one as the test subject). Two measurements at this midpoint should be recorded. One measurement to be taken on the surface of the enclosure pole furthest from the center of the trampoline jump mat, and another measurement to be taken 90° around the circumference of the enclosure pole from the first measurement.	Pass
6.1.1.4	Pull the bag (load) back until the load support chain is at an angle that corresponds with the selected chain length distance in Table 1.	Pass
6.1.1.5	Release the bag (load) into the enclosure barrier. FIG. 1 Requirements for	Pass





REPORT No.: HK24102218003-1RR-R01 Date: November 07, 2024 Page 13 of 30

Applicable Section	Description	Result
ESTING	Connecting Devices F2225 – 15 (2020) (1) Re-measure the angles described in 6.1.1.3 (1) and record.	
6.1.1.6	Repeat the test in 6.1.1.1–6.1.1.5 (1).	Pass
6.1.1.7	Repeat the set up in 6.1.1.1 and 6.1.1.2 in preparation for impact tests against the enclosure support poles (frame) at a height mid-distance between the top and bottom of the support pole. Position the bag (load) so that it hangs against the enclosure support pole (frame) on the inside of the enclosure. The pivot point of the pendulum created by the load and chain should be positioned directly above the top of the enclosure support pole (frame). The contact point of the bag (load) should be on the opposite side of the enclosure from the secured point established in 6.1.1.1.	Pass
ALLEY TESTING	Measure and record the angle of the enclosure pole to be impacted at the midpoint between the top of the enclosure pole and the uppermost point of connection to the trampoline frame with an angle finder designed for use on tubular/round surfaces. Two measurements at this midpoint should be recorded. One measurement to be taken on the surface of the enclosure pole furthest from the center of the trampoline jump mat, and another measurement to be taken 90° around the circumference of the enclosure pole from the first measurement.	Pass
6.1.1.8	Pull the bag (load) back until the load support chain is at an angle that corresponds with the selected chain length distance in Table 1.	Pass
6.1.1.9	Release the bag (load) into the enclosure support pole (frame). (1) Re-measure the angles described in 6.1.1.7 (1) and record.	Pass
6.1.1.10	Repeat the test in 6.1.1.6–6.1.1.9 (1).	Pass
6.1.1.11	Repeat the set-up in 6.1.1.1 and 6.1.1.2 in preparation for impact tests against the enclosure opening at a height as close as possible to the mid-distance between the top and bottom of the opening. Position the bag (load) so that it hangs against the enclosure opening on the inside of the enclosure. The pivot point of the pendulum created by the load and chain should be positioned directly above the top of the enclosure opening. The contact point of the bag (load) should be on the opposite side of the enclosure from the secured point established in 6.1.1.1.	Pass
6.1.1.12	Pull the bag (load) back until the load support chain is at an angle that corresponds with the selected chain length distance in Table 1.	Pass
6.1.1.13	Release the bag (load) into the enclosure opening.	Pass
6.1.1.14	Repeat the preparation for impact tests as established in 6.1.1.11, except the position of the bag (load) is 8 in to the right, as measured from the inside of the enclosure, from the enclosure opening as established in 6.1.1.11.	Pass
6.1.1.15	Repeat the test methods in 6.1.1.12 and 6.1.1.13.	Pass
6.1.1.16	Repeat the preparation for impact tests as established in 6.1.1.11, except the position of the bag (load) is 8 in. to the left, as measured from the inside of the enclosure, from the enclosure opening as established in 6.1.1.11.	Pass
6.1.1.17	Repeat the test methods in 6.1.1.12 and 6.1.1.13.	Pass
6.2	Performance Requirement Test #2 requires that, following assembly of the	Pass

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REPORT No.: HK24102218003-1RR-R01 Date: November 07, 2024 Page 14 of 30

Applicable Section	Description	Result
C C	trampoline enclosure in accordance with the instructions provided to the consumer, there shall be no sharp edges or points on any portion of the trampoline enclosure capable of inflicting a cut on a child during normal use or reasonably foreseeable abuse. All points and edges on the trampoline enclosure shall be tested for sharpness in accordance with the federal technical requirements in 16 CFR 1500.48 and CFR1500.49 referenced in 2.3.	AKTESTING
HUAN TESTING	Performance Requirement Test #3 requires that there shall be no pinch, crush, or shear points caused by junctures of two components moving relative to one another, or at an opening present in the enclosure support (frame) attachment system or the enclosure barrier attachment system while the enclosure system	HUAKTESTINE
6.3	is in normal use. Pinch, crush, or shear points shall be deemed to be any point that allows a 3/16 in. (5 mm)diameter neoprene rod to enter at one or more positions or entraps a 1/2 -in. (13-mm) diameter neoprene rod. Entrapment	Pass
TESTING	shall mean that a force of more than 2 lbf (9 N) is required to pull out the rod. The neoprene rods shall have a hardness reading between 50 and 60 as determined by a Type A durometer in accordance with Test Method D2240. User Containment—Performance Requirement Test #4 requires that a	O HUM
6.4	trampoline enclosure shall be designed and constructed so that when assembled and the enclosure opening is closed (see 5.9), there shall be no accessible opening that presents the risk of accidental head or neck entrapment, or unintentional user exit, by either a head first or feet first entry into the opening. Openings between the ground and the bottom edge of the equipment (such as rails and the base of the frame, etc.) are exempt from this requirement.	Pass
6.4.1	Accessible Openings—Any completely bounded opening that completely accepts the torso test probe. A completely bounded opening is accessible when a torso test probe (see Fig. 2) may be inserted into the opening to a depth of 4 in. (100mm) using the following test method.	Pass
6.4.2	Containment Test Procedure for Completely Bounded Rigid Openings—Place the torso probe in the opening, tapered end first, with the plane of its base parallel to the plane of the opening; rotate the probe while keeping its base parallel to the plane of the opening.	Pass
6.4.2.1	An opening can pass this test if the opening does not admit the torso probe.	Pass
6.4.2.2	An opening fails the test under the following condition: The opening admits the test probe.	Pass
	Containment Test Procedure for Non rigid Openings—A non rigid opening located in components such as, but not limited to, flexible netting and barriers, tarps and plastic barriers, is considered accessible if a torso probe will penetrate the opening to a	
6.4.3	depth of 4 in. (100 mm) when tested in accordance with 6.4.1. Place the torso probe in the opening, tapered end first, with the plane of its base parallel to the plane of the opening; rotate the probe while keeping its base parallel to the plane of the opening; apply 50 lbf (222 N) while attempting to push the probe through the opening.	Pass
6.4.3.1	A nonrigid opening can pass this test if the opening does not allow the torso probe to be inserted so deep that the opening admits the base of the probe	Pass

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REPORT No.: HK24102218003-1RR-R01 Date: November 07, 2024 Page 15 of 30

Applicable Section	Description						
G	when it is rotated to any orientation about its own axis.						
6.4.3.2	A nonrigid opening fails the test under the following condition: The opening allows full passage of the torso probe.	Pass					
6.5	Ultraviolet (UV) Resistant Materials Test:						
6.5.1	The barrier and any fabric, cord, or webbing connections supporting the barrier that are 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.						
6.5.2	Specimens to be tested shall be normal tensile test samples from the finished material.	Pass					
6.5.3	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./min (55 mm/min).	Pass					
6.5.4	The specimens are to be exposed according to the following procedures: Accelerated Weathering Procedure (Xenon Lamp Exposure). The test procedure shall be in accordance with AATCC 169, except the following deviations apply:	Pass					
(1)	The apparatus shall be equipped with an automatic light monitor and shall be capable of automatically controlling irradiance, temperature, and humidity.	Pass					
(2)	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						
(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/m 2 at 300 nm – 400 nm.	Pass					
(4)	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 %.	Pass					
(5)	The relative humidity shall be 50 6 5 % during the light cycle and not lower than 95 % during the dark cycle.	Pass					
HUAK TESTING	The control set points shall be as follows: (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	HUAKTESTING					
(6)	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					
7.	Information Packet	Pass					
7.1	Packet Marking and Contents:	Pass					
CH .	Assembly and Installation Instructions:	Pass					

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REPORT No.: HK24102218003-1RR-R01 Date: November 07, 2024 Page 16 of 30

Applicable Section	Description	Result
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-Enclosure Warnings	Pass
8.3	Instruction Placard	Pass
9.	Packaging and Package Marking	Pass
10.	Keywords	TESTING

Note:

--NA= Not Applicable



REPORT No.: HK24102218003-1RR-R01 Date: November 07, 2024 Page 17 of 30

D.1 ASTM F963-23 Standard Consumer Safety Specification for Toy Safety -Mechanical and Physical Tests

Applicable Section	Description	Result			
4	Safety Requirements				
4.1	Material Quality	Pass			
4.3.6	4.3.6 Cosmetics, Liquids, Pastes, Putties, Gels, Powders, and Items of Avian Feather Origin				
4.3.7	Stuffing Materials	NA			
4.4	Electrical/Thermal Energy—Toys operating from nominal 120-V branch circuits shall conform to 16 CFR 1505, issued under the FHSA.	NA			
4.5	Sound-producing Toys	NA			
4.6	Small Objects	Pass			
4.7	Accessible Edges	Pass			
4.8	Projections	NA			
4.9	Accessible Points	NA			
4.10	Wires or Rods	Pass			
4.11	Nails and Fasteners	Pass			
4.12	Plastic Film	Pass			
4.13	Folding Mechanisms and Hinges	NA			
4.14	Cords, Straps, and Elastics	NA			
4.15	Stability and Over-load Requirements	Pass			
4.16	Confined Spaces	NA			
4.17	Wheels, Tires, and Axles	NA			
4.18	Holes, Clearance, and Accessibility of Mechanisms	Pass			
4.19	Simulated Protective Devices (such as helmets, hats, and goggles)	NA			
Eye Protection—All rigid toys that cover the face, such as goggles, space helmets, or face shields, shall be constructed of impact-resistant material that will not have sharp edges, sharp points, or loose parts that could enter the eye before or after being tested in accordance with 8.5 – 8.10. This applies to items with cutout eye holes as well as items that cover the eyes.					
4.19.2	Toys that simulate safety protective devices (examples include, but are not limited to, construction helmets and sports helmets) and their packages shall be labeled clearly in accordance with 5.9 to warn the purchaser that they are not safety protective devices.	NA			
4.20	Pacifiers	NA			
4.21	Projectile Toys	NA			

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Applicable Section					
4.22	Teethers and Teething Toys	NA			
4.23	Rattles	NA			
4.24	Squeeze Toys	MAKTE NA			
4.25	Battery-operated Toys	NA			
4.26	Toys Intended to be Attached to a Crib or Playpen	NA			
4.27	Stuffed and Beanbag-type Toys	NA			
4.28	Stroller and Carriage Toys	NA			
4.29	Art Materials	NA			
4.30	Toy Gun Marking	NA			
4.31	Balloons	NA			
4.32	Certain Toys with Nearly Spherical Ends	NA			
4.33	Marbles	NA			
4.34	Balls	NA NA			
4.35	Pompoms	NA			
4.36	Hemispheric-Shaped Objects	NA			
4.37	Yo Yo Elastic Tether Toys	NA			
4.38	Magnets	NA			
4.39	Jaw Entrapment in Handles and Steering Wheels	NA			
4.40	Expanding Materials	NA			
4.41	Toy Chests	NA			
-mic 5	Labeling Requirements				
5.1	Federal Government Requirements	Pass			
5.2	Age Grading Labeling	Pass			
5.3	Safety Labeling Requirements	Pass			
5.4	Aquatic Toys	NA			
5.5	Crib and Playpen Toys	NA			
5.6	Mobiles	NA			
5.7	Stroller and Carriage Toys	NA			
5.8	Toys Intended to be Assembled By an Adult	Pass			
5.9	Simulated Protective Devices	NA			
5.10	Toys with Functional Sharp Edges or Points	NA			
5.11	Small Objects, Small Balls, Marbles, and Balloons	NA			



REPORT No.: HK24102218003-1RR-R01 Date: November 07, 2024 Page 19 of 30

Applicable Section	Description	Result				
5.12	Art Materials—Toys and components of toys that fall within the definition of art material as found in 16 CFR 1500.14(b)(8) shall be labeled in accordance with the provisions of that section and Practice D4236.	NA				
5.13	Electric Toys—Refer to 16 CFR 1505.3 for required labeling.	NA NA				
5.14	Battery-operated Toys	NA				
5.15	Promotional Materials	NA				
5.16	Magnets	NA				
6	Instructional Literature					
6.1	Definition and Description	Pass				
6.2	Crib and Playpen Toys	NA				
6.3	Mobiles	NA				
6.4	Toys Intended to be Assembled By an Adult	Pass				
6.5	Battery-Operated Toys	NA				
6.6	Battery-powered Ride-on Toys	NA				
6.7	Toys in Contact with Food	NA				
6.8	Toys Chests	NA				
6.9	The instructional material for toys which require a manufacturer-supplied specialty or custom tool to access the battery(ies) shall direct caregivers to retain the tool for future use, to store it where the child cannot access it, and state that the tool is not a toy.	NA				
7 ^G	Producer's Markings	TESTI				
7.1	Either a principal component of a toy or the package of a toy shall be marked with the name and address of the producer or the distributor.					
7.2	Battery-powered Ride-on Toys	NA				
7.3	Toy chests	NA				

--NA= Not Applicable



REPORT No.: HK24102218003-1RR-R01 Date: November 07, 2024 Page 20 of 30

Use and abuse testing:

Applicable Section	Description	Age Group	Test condition, lb (kg)	Result	
8.5	Normal use testing	"JAKTESTI	O 110.	Pass	
8.6	Abuse testing	WG O	(i)	Pass	
	HUANTES	0 to 18	less than 3 ± 0.01 (1.4)	Pass	
8.7	Impact test	over 18 to 36	less than 4 ± 0.01 (1.8)	NA	
	(Market)	over 36 to 96	less than 10 ± 0.01 (4.5)	NA	
		0 to 18	2.2 in.·lbf (0.25 N·m)	Pass	
8.8	Torque test	over 18 to 36	3.2 in.·lbf (0.36 N·m)	NA	
		over 36 to 96	4.2 in.·lbf (0.47 N·m)	NA	
	Tension test	0 to 18	10.5 lbf (46.7 N)	Pass	
8.9		over 18 to 36	10.5 lbf (46.7 N)	NA	
		over 36 to 96	10.5 lbf (46.7 N)	NA	
		0 to 18	20.5 lbf (91.2 N)	Pass	
8.10	Compression test	over 18 to 36	25.5 lbf (113.5 N)	NA	
	MAX TESTING	over 36 to 96	30.5 lbf (135.7 N)	NA	
8.11	Tests for Tire Removal and Snap-in Wheel and Axle Assembly Removal				
8.12	Flexure Test	Pass			
8.15	Test for Stability of Ride-on Toys or Toy Seats				

D.2 Section 4.2 Flammability Tests (A5) FLAMMABILITY TESTING PROCEDURE FOR SOLIDS AND SOFT TOYS

Flammability test of material

Sample	Burn rate (in/sec.)	Result
Black jumper	<0.1	Pass

Note: In accordance with the ASTMF963, the burning rate should not be greater than 0.1inch per second.

DNI =Did Not Ignited

SE= Self-Extinguished

IBE= Ignite but Extinguished

Remark:

A5.2.2 soft toy—any stuffed or plush toy, that may or may not be parts or components of other toys.

A5.2.3 solids—toys or toy parts constructed of rigid, flexible, or pliable solids.

A5.2.4 accessories—an item intended to be removed to enhance the play pattern.

- A5.2.5 strings—long slender flexible material usually consisting of several strands (as of thread or yarn) woven or twisted together, usually used to bind, fasten, tether, or tie.

A5.2.6 paper—Examples of paper products are traditional playing cards, newspaper, magazines, and construction paper.

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REPORT No.: HK24102218003-1RR-R01 Date: November 07, 2024 Page 21 of 30

Tested part(s):

Seq. no	Part(s) name	Sample description	
TESTING 1	Black jumper	Trampoline body	
2 HUAK TES	White coating	Trampoline rack	

D.3 Section 4.3.5.1 Heavy Metals content in paint and similar surface coating material

(1) Total Lead Content

Test method: With reference to ASTM F963-23 Section 8.3.1, sample was digested with acid mixture and analyzed by inductively coupled plasma atomic emission spectrometer (ICP-AES).

	ltom	ltom Unit		Results	Limit/Fools)	
8	ltem	Unit	MDL	(a) PULL 2	O HOM	Limit(Each)
	Lead Content (Pb)	mg/kg	2	6	-STING	90
pik	Conclusion	I and	JAKTES	Pass	HUAKTER	ESTING

(2) Soluble Heavy Metals Content

Test method: With reference to ASTM F963-23 Section 8.3.2. The heavy metals content was determined by inductively Coupled plasma atomic emission spectrometer (ICP-AES).

,	Unit MDL		Results		
ltem				Limit	
			2		
Soluble Lead (Pb)	mg/kg	2	N.D.	90	
Soluble Antimony (Sb)	mg/kg	2ESTIN	N.D.	60	
Soluble Arsenic (As)	mg/kg	2	N.D.	25	
Soluble Barium (Ba)	mg/kg	2 2 C	311	1000	
Soluble Cadmium (Cd)	mg/kg	2	N.D.	75	
Soluble Chromium (Cr)	mg/kg	2	N.D.	60	
Soluble Mercury (Hg)	mg/kg	2	N.D.	60	
Soluble Selenium (Se)	mg/kg	2	N.D.	500	
Conclusion	1	(1) Y	Pass	© ï	



REPORT No.: HK24102218003-1RR-R01 Date: November 07, 2024 Page 22 of 30

D.4 Section 4.3.5.2 Heavy Metals Content in Toy Substrate Materials

(1) Total Lead Content

Test method: With reference to ASTM F963-23 Section 8.3.1, sample was digested with acid mixture and analyzed by inductively coupled plasma atomic emission spectrometer (ICP-AES).

lto.m	l lmi4	MDI	Results	Limit/Each)
ltem	Unit MDL	NA NA	Limit(Each)	
Lead Content (Pb)	mg/kg	2	NA HUA	100
Conclusion	1	1	NA	1

(2) Soluble Heavy Metals Content

Test method: With reference to ASTM F963-23 Section 8.3.5. The heavy metals content was determined by inductively Coupled plasma atomic emission spectrometer (ICP-AES).

l4 a m	11	MDI	Results	Limit	
Item	Unit	MDL	NA		
Soluble Lead (Pb)	mg/kg	2	NA NA	90	
Soluble Antimony (Sb)	mg/kg	2	NA NA	60	
Soluble Arsenic (As)	mg/kg	2	NA NA	25	
Soluble Barium (Ba)	mg/kg	2	NA	1000	
Soluble Cadmium (Cd)	mg/kg	2	NA	75	
Soluble Chromium (Cr)	mg/kg	2	NA NA	60	
Soluble Mercury (Hg)	mg/kg	2	NA	60	
Soluble Selenium (Se)	mg/kg	2	NA	500	
Conclusion	1 0 H	1	NA MA	LOK ESTIMA	

Remark

Maximum acceptable element migration from toy materials

The Towns of the	Element (mg/kg)					STING (
Toy material	Sb	As	Ва	Cd	Cr	Pb	Hg	Se
Surface Coatings and Substrates Other Than Modeling Clay Included as Part of a Toy	60	25	1000	75	60	90	60	500
Modelling Clays Included as Part of a Toy	60	25	250	50	25	90	25	500



REPORT No.: HK24102218003-1RR-R01 Date: November 07, 2024 Page 23 of 30

D.5 -Section 4.3.8 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).

Marri	11!4	MDI	Results	Limit/Faala)
Item	Unit	MDL	2	Limit(Each)
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	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	HI AK TES	Pass	HUAK TES

E. 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-OES)

ltam	Unit	MDL	Results	l imit
ltem	Unit	IVIDL	NA TEIN	Limit
Lead Content (Pb)	mg/kg	5 HUM 5	NA NA	90
Conclusion	1	, NG	NA NA	1

F. 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-OES).

Itam	Unit	MDL	Results	Limit
Item	Unit	IVIDL	STATE 1	Lillit
Lead Content (Pb)	mg/kg	5	N.D.	100
Conclusion	1	1	Pass	I



REPORT No.: HK24102218003-1RR-R01 Date: November 07, 2024 Page 24 of 30

(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-OES)

ltom	Unit	MDL	Results	Limit
ltem	Unit	MDL	NA	LIIIII
Lead Content (Pb)	mg/kg	5	NA MAKETES N	90
Conclusion	9 1	LITEST	NA NA	TING I NY TESTIN

G. 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).

	11.2	MDI	Results	1.1
Item	Unit	MDL	1	Limit
Dibutyl Phthalate (DBP)	mg/kg	30	N.D.	1000
Benzylbutyl Phthalate (BBP)	mg/kg	_s 30	STING N.D.	1000
Bis-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	30	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	LATEST	Pass	N TEXTING

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.: HK24102218003-1RR-R01 Date: November 07, 2024 Page 25 of 30

H. 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	Pass
(ii)	reference to those marks; and 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 described in clauses (i) and (ii) of subparagraph (A).	NA
(b)	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



REPORT No.: HK24102218003-1RR-R01 Date: November 07, 2024 Page 26 of 30

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.	STING
(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
HUAKTESTING	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	MIAN TESTING
(g)	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 responsible for maintaining records of test results.	Pass
(h)	RULE OF CONSTRUCTION.	Pass
(i)	ADDITIONAL REGULATIONS FOR THIRD PARTY TESTING	Pass

** Modified History **

2024/10/25	
2024/10/23	Jason Zhou
2024/11/07	Jason Zhou
	2024/11/07



REPORT No.: HK24102218003-1RR-R01 Date: November 07, 2024 Page 27 of 30

Photograph of Sample







REPORT No.: HK24102218003-1RR-R01 Date: November 07, 2024 Page 28 of 30







REPORT No.: HK24102218003-1RR-R01 Date: November 07, 2024 Page 29 of 30





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REPORT No.: HK24102218003-1RR-R01 Date: November 07, 2024 Page 30 of 30





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