

TEST REPORT

Applicant: SUPER IMPULSE LIMITED
RM 515 5/F PENINSULA CTR
67 MODY RD
TSIM SHA TSUI KLN
HK

Number: HKGH02886413

Date: Jun 09, 2022

Attn: RAME / SO

Sample and Information provided by customer :
Item Name : **Worlds Smallest Nerf Basketball**
Item No. : **5004**
Labelled Age Group : **6+**
Packaging Provided : **Yes**
Country of Origin : **China**
Quantity : **12 Sets**



For and on behalf of :
Intertek Testing Services HK Ltd.

Cindy I.K. Chan
Vice President



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Conclusion:

The submitted sample was tested under the following requirements requested by the applicant, subject to the information stated in the remark and attached page(s) for details :

<u>Requirement</u>	<u>Result</u>
(1) U.S. ASTM F963-17 - Physical and Mechanical tests	Pass
(2) U.S. CFR Title 16 (CPSC Regulations) - Part 1500.48 Sharp point test - Part 1500.49 Sharp edge test	Pass
(3) Consumer Product Safety Improvement Act (CPSIA) 2008 Section 103 - Tracking labels for children products	Pass
(4) ASTM F963-17 - Flammability Test of Materials other than textile materials	Pass
(5) U.S. CFR Title 16 (CPSC Regulations) - Part 1500.3(c)(6)(vi) - Flammability test on rigid and pliable solids	Pass
(6) ASTM F963-17 - Soluble heavy elements test ∞	Pass
(7) ASTM F963-17 - Total Lead content	Pass
(8) U.S. Consumer Product Safety Improvement Act 2008 Title I Section 101 - Total Lead content in non-surface coating materials (substrate)	Pass
(9) U.S. CFR Title 16 (CPSC Regulations) - Part 1303 - Total Lead content in surface coating	Pass
U.S. Consumer Product Safety Improvement Act 2008 Title I Section 101 - Total Lead content in surface coating	Pass
(10) Illinois Lead Poisoning Prevention Act 410 ILCS 45 - Total Lead content	Pass
(11) California Proposition 65 for toys, Consent Judgement no. RG-356892 - Lead content	Pass



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<u>Requirement</u>	<u>Result</u>
(12) California Proposition 65 for Toys (designed for or reasonable used by children under six years of age), Consent judgment no. BG-350969 - Phthalate content	Pass
(13) US CPSC 16 CFR Part 1307 Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates - Phthalate content	Pass
(14) California Health and Safety Code, Part 3 of Division 104, Chapter 11(AB1108). - Requirement on phthalate	Pass

Decision Rule(s):

When a statement of conformity to a specification or standard is provided on test report, the decision rule shall be applied. For details, please refer to Intertek's "Decision Rule Document" and is available on Intertek's website. <https://intertekhk.grd.by/decision-rule-doc>.
If decision rule already inhered in the requested specification or standard, Intertek's "Decision Rule Document" is not applicable and indication of "∞" was shown as above table.



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(1) Physical and Mechanical Tests

Test Standard : ASTM Standard Consumer Safety Specification for Toy Safety F963-17

Age group for testing : For Ages Over 6 Years

The submitted samples were undergone the use and abuse tests in accordance with the Federal Hazardous Substances Act (FHSA), Title 16, Code of Federal Regulations : -		
Test	FHSA	Parameter
Compression test	Section 1500.53(g)	30 lbf
Drop Test	Section 1500.53(b)	4 x 3.0 ft
Tension test	Section 1500.53(f)	15 lbf
Torque test	Section 1500.53(e)	4 in-lbf

Clause	Requirement	Assessment
4.1	Material quality	P
4.5	Sound producing toys	NA
4.6.1	Toys intended for children under 36 months of age	NA
4.6.2	Mouth actuated toys	NA
4.6.3	Toys and games for 36 months to 72 months - Small part warning	NA
4.7	Accessible edges	P
4.8	Projection	NA
4.9	Accessible points	P
4.10	Wires or rods	NA
4.11	Nails and fasteners	P
4.12	Plastic film	NA
4.13	Folding mechanisms and hinges	NA
4.14	Cords, straps, and elastics	NA
4.15	Stability and overload requirement	NA
4.16	Confined spaces	NA
4.17	Wheels, tires, and axles (96 months of age or less)	NA
4.18	Holes, clearance, and accessibility of mechanisms	NA
4.19	Simulated protective devices	NA
4.20	Pacifiers	NA
4.21	Projectile toys	P
4.22	Teethers and teething toys	NA
4.23	Rattles	NA
4.24	Squeeze toys	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	P
4.35	Pompoms	NA
4.36	Hemispherical 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



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Clause	Requirement	Assessment
4.41	Toy chests	NA
5	Labeling requirements	P
6	Instructional literature	P
7	Producer's marking	
	- Name of producer / distributor	Yes
	- Address	Yes

Abbreviation : P = Pass NA = Not Applicable

The submitted samples were undergone the tests in accordance with section 8.5 through section 8.17 and 8.19 through 8.26 on normal use, abuse and specific tests for different types of toys whichever is applicable.

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(2) Mechanical and Physical Test

Test Standard : U.S. code of Federal Regulations Title 16 Part 1500.50, the hazards of sharp points, sharp edge and small parts are assessed both before and after applicable use and abuse tests.

Age group for testing : For Ages Over 6 Years

	<u>No. of sample tested</u>	<u>Sharp point (1500.48)</u>	<u>Sharp edge (1500.49)</u>	<u>Small part (1501)</u>
As Received	1	P	NA	NA
Impact (1500.53 (b))	1	P	NA	NA
Flexure (1500.53 (d))	0	NA	NA	NA
Torque (1500.53 (e))	1	P	NA	NA
Tension (1500.53 (f))	1	P	NA	NA
Compression (1500.53 (g))	1	P	NA	NA

Abbreviation : P= Pass NA = Not applicable

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(3) Tracking Label Assessment

Test Standard : Consumer Product Safety Improvement Act (CPSIA) 2008 Section 103 tracking labels for children products.

Tracking label found on the packaging:

SIBLTQSDG0422
SI USA

Tracking label found on the product:

SIBLTQSDG0422

SI Ltd

Note: The tracking label assessment was based on the submitted sample and the information provided by the applicant. There was no verification on the validity of such information.

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(4) Flammability Tests

Test Standard : Section 4.2 of the ASTM Standard Consumer Safety Specification for Toy Safety F963-17.

<u>Sample</u>	<u>Ignition point</u>	<u>Burn length</u> <u>(inch)</u>	<u>Time (sec)</u>	<u>Burn Rate</u> <u>(inch/sec)</u>	<u>Limit (inch/sec)</u>
stand	edge	1.0	60	0.02	0.10

The above result only showed the most severe burn rate of the samples and components.

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(5) Flammability Tests

Test Standard : U.S. Code of Federal Regulations Title 16 Part 1500.44 for rigid and pliable solids.

<u>Sample</u>	<u>Ignition point</u>	<u>Burn length</u> <u>(inch)</u>	<u>Time (sec)</u>	<u>Burn Rate</u> <u>(inch/sec)</u>	<u>Limit (inch/sec)</u>
stand	edge	1.0	60	0.02	0.10

The above result only showed the most severe burn rate of the samples and components.

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(6) Heavy Elements Analysis

Test Method : Sections 8.3.2, 8.3.3, 8.3.4 and 8.3.5 of the ASTM Standard Consumer Safety Specification for Toy Safety F963-17. Acid extraction and analysed by Inductively Coupled Argon Plasma Spectrometry.

Materials other than modelling clay:

	Result (ppm)			Limit (ppm)
	(2)	(3)	(4)	
Soluble Barium (Ba)	<5	<5	<5	1000
Soluble Lead (Pb)	<5	<5	<5	90
Soluble Cadmium (Cd)	<5	<5	<5	75
Soluble Antimony (Sb)	<5	<5	<5	60
Soluble Selenium (Se)	<5	<5	<5	500
Soluble Chromium (Cr)	<5	<5	<5	60
Soluble Mercury (Hg)	<5	<5	<5	60
Soluble Arsenic (As)	<2.5	<2.5	<2.5	25

	Result (ppm)			Limit (ppm)
	(5)	(6)	(7)	
Soluble Barium (Ba)	<5	<5	<5	1000
Soluble Lead (Pb)	<5	<5	<5	90
Soluble Cadmium (Cd)	<5	<5	<5	75
Soluble Antimony (Sb)	<5	<5	<5	60
Soluble Selenium (Se)	<5	<5	<5	500
Soluble Chromium (Cr)	<5	<5	<5	60
Soluble Mercury (Hg)	<5	<5	<5	60
Soluble Arsenic (As)	<2.5	<2.5	<2.5	25

The above limit was quoted according to Section 4.3.5 of the ASTM Standard Consumer Safety Specification for Toy Safety F963-17

ppm = parts per million = mg/kg



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@ : Since the sample weight of the component was less than 10 mg, soluble heavy metal analysis was not applicable.

Tested Components:

- (1) @ Red coating on plastic (wordings).
- (2) Paper label with plastic film (sticker).
- (3) Orange plastic (post, stand, board).
- (4) Dull orange plastic (rim).
- (5) Transparent plastic (suction cup).
- (6) Orange foam (basketball).
- (7) White net (net).

Decision Rule:

∞ : Materials are deemed to comply with the requirements if the adjusted analytical result is less than or equal to the limit of this table.

The analytical result of materials shall be adjusted by subtracting the analytical correction in below table to obtain an adjusted analytical of result.

Elements	Sb	As	Ba	Cd	Cr	Pb	Hg	Se
Analytical Correction(%)	60	60	30	30	30	30	50	60

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(7) Total Lead (Pb) Content

Test Method : CPSC-CH-E1001-08.3, CPSC-CH-E1002-08.3 or/and CPSC-CH-E1003-09.1,
analysed by Inductively Coupled Argon Plasma Spectrometry.

Coating:

Tested Component	Result in ppm	Limit in ppm
(1)	<20	90

Substrate:

Tested Component	Result in ppm	Limit in ppm
(2/3/4)	<20	100
(5/6)	<20	100

The above limit was quoted according to Section 4.3.5.1 (1) and 4.3.5.2 (2)(a) of the ASTM standard Consumer Safety Specification for Toy Safety F963-17.

ppm = parts per million = mg/kg

Tested Components:

- (1) Red coating on plastic (wordings).
- (2) Paper label with plastic film (sticker).
- (3) Orange plastic (post, stand, board).
- (4) Dull orange plastic (rim).
- (5) Transparent plastic (suction cup).
- (6) Orange foam (basketball).

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(8) Total Lead (Pb) Content in Non-Surface Coating Materials (Substrate)

Test Method : Standard Operating Procedures for Determining Total Lead (Pb) in Children's Products, test methods CPSC-CH-E1002-08.3 and/or CPSC-CH-E1001.08.3, analysed by Inductively Coupled Argon Plasma Spectrometry.

Tested Component	Result in ppm	Limit in ppm
(1/2/3)	<20	100
(4/5)	<20	100

The above limit was quoted according to U.S. Consumer Product Safety Improvement Act 2008 Title I, Section 101.

ppm = parts per million = mg/kg

Tested Components:

- (1) Paper label with plastic film (sticker).
- (2) Orange plastic (post, stand, board).
- (3) Dull orange plastic (rim).
- (4) Transparent plastic (suction cup).
- (5) Orange foam (basketball).

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(9) Total Lead (Pb) Content in Surface Coating

Test Method : Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, test method CPSC-CH-E1003-09.1, analysed by Inductively Coupled Argon Plasma Spectrometry.

Tested Component	Result in ppm	Limit in ppm
(1)	<20	90

The Above limit was quoted according to U.S. CFR Title 16 Part 1303 and U.S. Consumer Product Safety Improvement Act 2008 Title I, Section 101.

ppm = parts per million = mg/kg

Tested Component:

(1) Red coating on plastic (wordings).

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(10) Total Lead (Pb) content

Test Method : Illinois Lead Poisoning Prevention Act 410 ILCS 45, acid digestion method and analysed by Inductively Coupled Argon Plasma Spectrometry.

Coating:

Tested Component	Result in %, w/w	Limit in %, w/w
(1)	<0.0020	0.009

Substrate:

Tested Component	Result in %, w/w	Limit in %, w/w
(2/3/4)	<0.0020	0.010
(5/6)	<0.0020	0.010

Warning statement limit for coating = 0.0040%

The above limit was quoted according to Illinois Lead Poisoning Prevention Act 410 ILCS 45.

Tested Components:

- (1) Red coating on plastic (wordings).
- (2) Paper label with plastic film (sticker).
- (3) Orange plastic (post, stand, board).
- (4) Dull orange plastic (rim).
- (5) Transparent plastic (suction cup).
- (6) Orange foam (basketball).

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(11) Total Lead (Pb) content

Test Method : Acid digestion and analysed by Inductively Coupled Argon Plasma Spectrometry.

Coating:

Tested Component	Result in %, w/w	Limit in %, w/w
(1)	<0.0020	0.009

Substrate:

Tested Component	Result in %, w/w	Limit in %, w/w
(2/3/4)	<0.0020	0.010
(5/6)	<0.0020	0.010

The above limit was quoted from the Consent Judgement no. RG-356892 settled by Superior Court of the State of California for the County of Alameda, for toys based on the California Proposition 65.

Tested Components:

- (1) Red coating on plastic (wordings).
- (2) Paper label with plastic film (sticker).
- (3) Orange plastic (post, stand, board).
- (4) Dull orange plastic (rim).
- (5) Transparent plastic (suction cup).
- (6) Orange foam (basketball).

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(12) Phthalate Content Test

Test Method : Solvent extraction and Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Compound	Result (% w/w)		Limit (% w/w)
	(1/2)	(3/4)	
Dibutyl phthalate (DBP)	0.02	<0.01	0.1
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	0.1
Benzyl butyl phthalate (BBP)	<0.01	<0.01	0.1
Diisodecyl phthalate (DIDP)	<0.01	<0.01	0.1
Di-n-hexyl phthalate (DNHP)	<0.01	<0.01	0.1
Diisononyl phthalate (DINP)	<0.01	<0.01	--

The above limit was quoted from the Consent Judgment no. BG-350969 settled by superior court of the state of California for the county of Alameda, for Toys (designed for or reasonable used by children under six years of age) set based on the California Proposition 65.

Tested Components:

- (1) Paper label with plastic film (sticker).
- (2) Orange plastic with red coating (board).
- (3) Transparent plastic (suction cup).
- (4) Orange foam (basketball).

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(13) Phthalate Content Test

Test Method : Standard Operating Procedure for Determining Phthalates, test method CPSC-CH-C1001-09.4 was used and phthalate content was determined by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Compound	Result (% w/w)		Limit (% w/w)
	(1/2)	(3/4)	
Dibutyl phthalate (DBP)	0.02	<0.01	0.1
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	0.1
Benzyl butyl phthalate (BBP)	<0.01	<0.01	0.1
Diisononyl phthalate (DINP)	<0.015	<0.015	0.1
Diisobutyl phthalate (DIBP)	<0.01	<0.01	0.1
Di-n-pentyl phthalate (DPP) / (DPENP)	<0.01	<0.01	0.1
Di-n-hexyl phthalate (DNHP) / (DHEXP)	<0.01	<0.01	0.1
Dicyclohexyl phthalate (DCHP)	<0.01	<0.01	0.1

The above limits are quoted from Federal Register, Vol. 82, No. 207, October 27, 2017, Rules and Regulations, Final rule for 16 CFR Part 1307 "Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates" effective from April 25, 2018.

Tested Components:

- (1) Paper label with plastic film (sticker).
- (2) Orange plastic with red coating (board).
- (3) Transparent plastic (suction cup).
- (4) Orange foam (basketball).

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(14) Phthalate Content Test

Test Method : Standard Operating Procedure for Determining Phthalates, test method CPSC-CH-C1001-09.4 was used and phthalate content was determined by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Three Phthalate content:

Compound	Result (% w/w)		Limit (% w/w)
	(1/2)	(3/4)	
Dibutyl phthalate (DBP)	0.02	<0.01	0.1
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	0.1
Benzyl butyl phthalate (BBP)	<0.01	<0.01	0.1

The above limit was quoted according to California Health and Safety Code, Part 3 of Division 104, Chapter 11 prohibiting the sales of toys and child care articles made with phthalates (AB1108).

Tested Components:

- (1) Paper label with plastic film (sticker).
- (2) Orange plastic with red coating (board).
- (3) Transparent plastic (suction cup).
- (4) Orange foam (basketball).

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End of report

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