

73550-1001



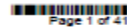
Test Report Number: SZHH01241104
 Applicant: MELISSA & DOUG LLC Date: May 18, 2018
 UNIT 2H, BLOCK 210 TAI RAN
 INDUSTRIAL ZONE SHENNAN XI
 ROAD, FUTIAN DISTRICT
 SHENZHEN
 Attn: MELISSA & DOUG LLC

Sample Description:
 Twelve (12) pieces of submitted sample said to be:
 Overall Result Pass
 Item Name 4217/14217-Design-Your-Own Bracelets.
 Item No. 4217/14217.
 Original/Purpose Global Protocol.
 P.O. No. 2172/2174, 2172/2173/2174.
 POC 18045.
 Carton No. --.
 Factory Name UN.
 Customer Name --.
 Category --.
 Country of Origin China.
 Destination --.
 Labelled Age Grading 4+.
 Age Grading Evaluated by Over 4 years.
 L30
 Age Grading for Testing Over 4 years.
 Date Sample Received Apr 04, 2018 & Apr 10, 2018.
 Date Test Completed May 18, 2018.

Tests conducted:
 As requested by the applicant, for details refer to attached page(s)
 To be continued

Authorized by:
 For Intertek Testing Services
 Shenzhen Ltd

Ben N.L. Lin
 General Manager



Intertek Testing Services Shenzhen Ltd.
 深圳天祥质量检测技术有限公司

West Side of 1F and 3,4,5F of Bldg. 1, 1-5/F of Bldg.
 3, Yuanzhong Science and Technology Industrial
 Park, No.4012, Wuhua Ave. North, Bantian Street,
 Longgang District, Shenzhen
 深圳市宝安区西乡街道铁岗大道北 4012 号元中科技工
 业园 1 号楼 3 - 4 - 5 层及 1 楼西面宇园和 3 号楼整栋
 1-5 层

Tel: +86755 26020111
 Fax: +86755 2637711079
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Test Report

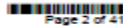
Number: SZHH01241104

Conclusion:		
<u>Tested Samples</u> Submitted samples	<u>Standard – U.S. ASTM F963-16</u> Physical and mechanical tests excluding Art materials requirement of section 4.29 & 5.13 Flammability test of materials other than textile materials	<u>Result</u> Pass Pass
<u>Tested Sample</u> Tested components of submitted samples	<u>Standard</u> Applicant's requirement with reference to U.S. ASTM F963-16 on soluble heavy elements test	<u>Result</u> Pass
<u>Tested Samples</u> Submitted samples	<u>Standard – U.S. ASTM F963-17</u> Physical and mechanical tests excluding Art materials requirement of section 4.29 & 5.13 Flammability test of materials other than textile materials	<u>Result</u> Pass Pass
<u>Tested Sample</u> Tested components of submitted samples	<u>Standard</u> Applicant's requirement with reference to U.S. ASTM F963-17 on soluble heavy elements test	<u>Result</u> Pass
Submitted samples	U.S. CFR Title 16 (CPSC Regulations) Mechanical and physical test	Pass
	U.S. CFR Title 16 (CPSC Regulations)/Part 1500.3(c)(6)(vi) flammability test on rigid and pliable solids	Pass
<u>Tested samples</u> Submitted samples	<u>Requirement</u> Consumer Product Safety Improvement Act (CPSIA) 2008 Section 103 Tracking labels for children product	<u>Result</u> Pass

To be continued

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For Intertek Testing Services
Shenzhen Ltd

Ben N.L. Lin
General Manager



Intertek Testing Services Shenzhen Ltd.
新加坡 興隆 技 術 有 限 公 司 分 公 司

West Side of 1/F and 3, 4, 5/F of Bldg 1, 1-5/F of Bldg 3, Yansheng Science and Technology Industrial Park, No.4012, Wuhu Ave. North, Bantian Street, Longgang District, Shenzhen
深圳市宝安区西乡街道铁岗社区4012号兴隆科技工业园 1 号楼 3 - 4 - 5 层及 1 栋西翼中楼和 3 号楼整栋 1-5 层

Tel: +86755 26020111
Fax: +86755 26071100
www.intertek.com.cn
www.intertek.com





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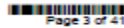
Conclusion:		
Tested Samples	Standard	Result
Tested components of submitted samples	Consent Judgment No. RG-356892 for total Lead content based on the California Proposition 65	Pass
	Test Item	
	Applicant's requirement on total Lead content	Pass
	Applicant's requirement with reference to US 16 CFR Part 1307 for Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates	Pass

Tested Samples	Standard	Result
Submitted sample	EN7-1-2014 for mechanical and physical properties	Pass
	EN7-2 : 2011+A1:2014 Flammability test	Pass
Tested components of submitted samples	EN7-3:2013+A2:2017 on migration of certain elements	Pass
	EN7-3:2013+A2:2017 on migration of certain elements (excluding lead migration) & lead migration of EU 2017/738 amending 2009/48/EC(effective from Oct 29,2018)	Pass
	REACH regulation Annex XVII Item 23 (EC) No 1907/2006 and amendment No. 552/2009, 494/2011, 835/2012 and 2016/217 Total Cadmium content	Pass

To be continued

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Shenzhen Ltd

Ben N.L. Lin
General Manager



Intertek Testing Services Shenzhen Ltd.
深圳天祥质量检测技术有限公司

West Side of 1/F and 3,4,5/F of Bldg. 1, 1-5/F of Bldg. 2, Yuanzhong Science and Technology Industrial Park, No.4012, Wuhua Ave. North, Bantian Street, Longgang District, Shenzhen
深圳市宝安区西乡街道铁岗大道北4012号元众科技工业园1号楼3-4-5层及1楼西翼单元和3号楼整栋1-5层

Tel:+86755 26020111
Fax:+86755 2637711019
www.intertek.com.cn
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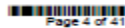


Test Report		Number:	SZHH01241104
Conclusion:			
Tested Samples Tested components of submitted samples	Test Item Applicant's requirement on total heavy metal content		Result Pass
	Applicant's requirement with reference to Phthalates content requirement in Annex XVIII items S1 & S2 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 55/2009 (formerly known as Directive 2005/84/EC)		Pass
Tested Sample Submitted samples	Standard Canada Consumer Product Safety Act Toys Regulations SOR/2011-17 for mechanical and physical test		Result Pass
	Canada Consumer Product Safety Act Toys Regulation SOR 2011-17 for celluloid or cellulose nitrate test		Pass
Tested components of submitted samples	Canada Consumer Product Safety Act Toys Regulations SOR/2011-17 Section 23 on toxic elements test		Pass
	Test Item Applicant's requirement with reference to Canada Consumer Product Safety Act Phthalates Regulations SOR/2016-188 on phthalate content		Pass
Tested Samples Tested components of submitted samples	Standard Consent Judgment No. CIV-1103513 on phthalate content based on the California Proposition 65		Result Pass
Submitted samples	Australian / New Zealand Standard AS/NZS 8124.1:2016 safety aspects related to mechanical and physical properties		Pass
	Australian / New Zealand Standard on Safety of Toys AS/NZS 8124.2:2016 flammability test		Pass

To be continued

Authorized by:
For Intertek Testing Services
Shenzhen Ltd

Ben N.L. Lin
General Manager



Intertek Testing Services Shenzhen Ltd.
普研检测(深圳)有限公司

West Side of 1/F and 3,4,5/F of Bldg. 1, 1-5/F of Bldg. 3, Yuanchang Science and Technology Industrial Park, No.4012, Wuhu Ave. North, Bantian Street, Longgang District, Shenzhen.
深圳市宝安区西乡街道铁岗社区铁岗北路4012号元昌科技园1-5层

Tel: +86755 29020111
Fax: +86755 29337110
www.intertek.com.cn
www.intertek.com





Test Report

Number: SZHH01241104

Conclusion:		
Tested Samples	Standard	Result
Tested components of submitted samples	Australian / New Zealand Standard AS/NZS 8124.3:2012/Amdt 1:2016 on toxic elements test	Pass
	Test Item Applicant's requirement with reference to Mexican Official Standard NOM-253-SGA1-2011 for toys and school supplies for toxic element test	Pass

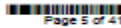
Tested Samples	Standard-Mexican Standard NOM-018-SCFI-2007	Result
Submitted samples	Commercial Information- Toy Labeling	Not Requested

Tested Samples	Standard	Result
Tested components of submitted samples	34/52/EC and amendment 2004/12/EC & 2005/20/EC & 2013/2/EU & (EU) 2015/720 Directive (packaging waste) on toxic elements test	Pass
	Model Toxics In Packaging Legislation on toxic elements test (Toxics In Packaging Clearinghouse- TPCH)	Pass
	EN71-9 : 2005 and amendment A1 : 2007 on monomers migration requirement	Pass
	EN71-9 : 2005 and amendment A1 : 2007 on solvent migration requirement	Pass
	EN71-9 : 2005 and amendment A1 : 2007 on plasticizer migration requirement	Pass
Submitted samples	U.S. ASTM F2923-14 Physical and mechanical tests	Pass
Tested components of submitted samples	U.S. ASTM F2923-14 Consumer Product Safety for Children's Jewelry on soluble toxic elements test on surface coating	Pass

To be continued

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For Intertek Testing Services
Shenzhen Ltd

Ben N.L. Lin
General Manager



Intertek Testing Services Shenzhen Ltd.
深圳中测检测技术有限公司

West Side of 1/F and 3,4,5/F of Bldg. 1, 1-5/F of Bldg. 3, Yuesheng Science and Technology Industrial Park, No.4012, White Ave. North, Bantian Street, Longgang District, Shenzhen
深圳市宝安区西乡街道五和大道北4012号光达科技工业园1号楼3-4-5层及1栋西翼中区和3号楼整栋1-5层

Tel: +86755 26020111
Fax: +86755 35371189
www.intertek.com.cn
www.intertek.com





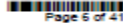
Test Report

Number: SZHH01241104

Conclusion:	Standard	Result
Tested Samples Tested components of submitted samples	U.S. ASTM F2923-14 Consumer Product Safety for children's Jewelry on total Lead content in surface coating	Pass
	U.S. ASTM F2923-14 Consumer Product Safety for Children's Jewelry on total Lead content in non-surface coating materials (substrate)	Pass
	U.S. ASTM F2923-14 Consumer Product Safety for children's Jewelry on Cadmium content in accessible plastic/metal	Pass
	Azocolourants Content Requirement in Annex XVII Item 43 Of The REACH Regulation (EC) NO. 1907/2006 & Amendment No. 552/2009 and 126/2013 (Formerly Known As Directive 2002/61/EC)	Pass
	<u>Test Item</u> Applicant's requirement on free formaldehyde content	Pass

Authorized by:
For Intertek Testing Services
Shenzhen I tri

Ben N.L. Lin
General Manager



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深圳天祥质量检测技术有限公司

West Side of 1/F and 3, 4, 5/F of Bldg. 1, 1-5/F of Bldg.
3, Yuanzheng Science and Technology Industrial
Park, No.4012, White Ave. North, Bantian Street,
Langgang District, Shenzhen
深圳市宝安区西乡街道五和大道北 4012 号天祥检测工
业园 1 号楼 3 - 4 - 5 层及 1 楼西翼中区和 3 号楼整栋
1-5 层

Tel: +86755 29020111
Fax: +86755 35377110/9
www.intertek.com.cn
www.intertek.com



**Test Report**

Number: SZHH01241104

Tests Conducted

1 **Physical and Mechanical Tests**

As per ASTM Standard Consumer Safety Specification for Toy Safety F963-16.

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
Impact test	Section 1500.53(b)	4 x 3.0 ft
Torque test	Section 1500.53(e)	4 in-lbf
Tension test	Section 1500.53(f)	15 lbf
Compression test	Section 1500.53(g)	30 lbf

Section	Testing Items	Assessment
4.1	Material quality (visual check on cleanliness)	P
4.5	Sound-producing toys	NA
4.5.1	Toys intended for children under 36 months (small objects)	NA
4.5.2	Mouth-actuated toys	NA
4.5.3	Toys and games for children at least 36 months but less than 72 months (small part warning)	P
4.7	Accessible edges	P
4.8	Projections	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 over-load requirements	NA
4.16	Confined spaces	NA
4.17	Wheels, tires and axles	NA
4.18	Holes, clearance, and accessibility of mechanisms	NA
4.19	Simulated protective devices (such as helmets, hats and goggles)	NA
4.20	Pacifiers	NA
4.21	Projectile toys	NA
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



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深圳天祥质量检测服务有限公司West Side of 1/F and 3,4,5/F of Bldg. 1, 1-5/F of Bldg.
3, Yuanzhong Science and Technology Industrial
Park, No.4012, Wuhu Ave. North, Bantian Street,
Longgang District, Shenzhen
深圳市宝安区西乡街道五和大道北 4012 号元中科技工
业园 1 号楼 3、4、5 层及 1 楼西座中座和 3 号楼整栋
1-5 层Tel: +86 755 28020111
Fax: +86 755 26377110
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Test Report

Number: SZHH01241104

Tests Conducted

Section	Testing Items	Assessment
4.28	Stroller and carriage toys	NA
4.29	Art materials	#
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
4.35	Pompoms	NA
4.36	Hemispheric-shaped objects	NA
4.37	Yoyo 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
5	Labeling requirement	Fit
6	Instructional literature	P
7	Producer's markings	
7.1	- Name of producer/distributor (Toy& Package)	Yes
	- Address (P Package)	Yes
7.3	Toy chests	
7.3.1	Name and address of manufacturer/distributor/seller	NA
7.3.2	Code mark	NA

Remark: The submitted samples were undergone the tests in accordance with section 8.5 through section 8.16 and 8.20 through 8.30 on normal use, abuse and specific tests for different types of toys whichever is applicable.

P = Pass NA = Not Applicable

= The supplier/applicant claimed that formulations of the art materials of the submitted item have been reviewed by toxicologist. No actual assessment has been made.



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 深圳天祥质量检测技术有限公司

West Side of 1/F and 3-4,5/F of Bldg. 1, 1-5/F of Bldg.
 3, Yuanzhong Science and Technology Industrial
 Park, No.4012, White Ave, North, Bantian Street,
 Longgang District, Shenzhen
 深圳市宝安区西乡街道五和大道北-4012号元正科技工
 业园1号楼3-4-5层及1楼西翼中间和3号楼整栋
 1-5层

Tel: +86755 26020111
 Fax: +86755 26371109
www.intertek.com.cn
www.intertek.com





Test Report

Number: SZHH01241104

Tests Conducted

2 **Flammability Test**

As per section 4.2 of the ASTM Standard Consumer Safety Specification on Toy Safety F963-16, the sample was tested according to Annex A5 Flammability Testing Procedure for Solids and Soft Toys.

Result: Ignited but self-extinguished before burn rate could be determined.

3 **Heavy Elements Analysis (except modelling clay)**

As per Section 4.3.5 and Section 8.3.2 to 8.3.5 of the ASTM Standard Consumer Safety Specification on Toy Safety F963-16, heavy elements migration content were determined by Inductively Coupled Argon Plasma Spectrometry.

Element	Result (ppm) 8		Reporting Limit (ppm)	Limit (ppm)	Client's Limit (ppm)
	Tested component	11 to 16 (A7)			
Sol. Barium (Ba)	ND		5	1000	500
Sol. Lead (Pb)	ND		5	90	30
Sol. Cadmium (Cd)	ND		5	75	40
Sol. Antimony (Sb)	ND		5	60	25
Sol. Selenium (Se)	ND		5	500	200
Sol. Chromium (Cr)	ND		5	80	40
Sol. Mercury (Hg)	ND		5	60	30
Sol. Arsenic (As)	ND		2.5	25	10

Sol. = Soluble
ppm = part per million = mg/kg
ND = Not detected
8 = Single result for each test component/group

Tested Components: See component list in the last section of this report

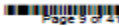
4 **Physical and Mechanical Tests**

As per ASTM Standard Consumer Safety Specification for Toy Safety F963-17.

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
Impact test	Section 1500.53(b)	4 x 3.0 ft
Torque test	Section 1500.53(e)	4 in-lbf
Tension test	Section 1500.53(f)	15 lbf
Compression test	Section 1500.53(g)	30 lbf

Section	Testing Items	Assessment
4.1	Material quality (visual check on cleanliness)	P



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深圳中祥质量检测技术有限公司

West Side of 1/F and 3,4,5/F of Bldg. 1, 1-5/F of Bldg. 3, Yuanzhong Science and Technology Industrial Park, No.4012, Wuhua Ave. North, Bantian Street, Longgang District, Shenzhen.
深圳市福田区田面路五和大厦北 4012 号元中科技工业园 1 号楼 3 - 4 - 5 层及 1 楼西翼中座和 3 号楼整栋 1-5 层

Tel: +86755 26520111
Fax: +86755 35377118/9
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**Test Report**

Number: SZHH01241104

Tests Conducted

Section	Testing Items	Assessment
4.5	Sound-producing toys	NA
4.6.1	Toys intended for children under 36 months (small objects)	NA
4.6.2	Mouth-actuated toys	NA
4.6.3	Toys and games for children at least 36 months but less than 72 months (small part warning)	F
4.7	Accessible edges	F
4.8	Projections	NA
4.9	Accessible points	F
4.10	Wires or rods	NA
4.11	Nails and fasteners	F
4.12	Plastic film	NA
4.13	Folding mechanisms and hinges	NA
4.14	Cords, straps, and elastics	NA
4.15	Stability and overload requirements	NA
4.16	Confined spaces	NA
4.17	Wheels, tires and axles	NA
4.18	Holes, clearance, and accessibility of mechanisms	NA
4.19	Simulated protective devices (such as helmets, hats and goggles)	NA
4.20	Pacifiers	NA
4.21	Projectile toys	NA
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	F
4.30	Toy gun marking	NA
4.31	Balloons	NA
4.32	Certain toys with nearly spherical ends	NA
4.33	Marbles	NA



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深圳天祥质量检测有限公司

West Side of 10^F and 3, 4, 5^F of Bldg. 1, 1-5^F of Bldg.
3, Yueshuang Science and Technology Industrial
Park, No.4012, Wuhua Ave. North, Bantian Street,
Longgang District, Shenzhen
深圳市宝安区西乡街道铁岗社区4012号悦尚科技工
业园1号楼3-4-5层及1栋西翼中庭和3号楼整栋
1-5层

Tel: +86755 26020111
Fax: +86755 26071109
www.intertek.com.cn
www.intertek.com



**Test Report**

Number: SZHH01241104

Tests Conducted

Section	Testing Items	Assessment
4.34	Balls	NA
4.35	Pompoms	NA
4.36	Hemispheric-shaped objects	NA
4.37	Yoyo 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
5	Labelling requirement	P/#
6	Instructional literature	P
7	Producer's markings	
7.1	- Name of producer/distributor (Toy& Package)	Yes
	- Address (Package)	Yes
7.3	Toy chests	
7.3.1	Name and address of manufacturer/distributor/seller	NA
7.3.2	Code mark	NA

Remark: The submitted samples were undergone the tests in accordance with section 8.5 through section 8.16 and 9.20 through 9.30 on normal use, abuse and specific tests for different types of toys whichever is applicable.

P = Pass NA = Not Applicable

= The supplier/applicant claimed that formulations of the art materials of the submitted item have been reviewed by toxicologist. No actual assessment has been made.

5 **Flammability Test**

As per section 4.2 of the ASTM Standard Consumer Safety Specification on Toy Safety F963-17, the sample was tested according to Annex A5 Flammability Testing Procedure for Solids and Soft Toys.

Result: Ignited but self-extinguished before burn rate could be determined.



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3, Yuanzhong Science and Technology Industrial
Park, No.4012, Wuhu Ave. North, Bantian Street,
Longgang District, Shenzhen.
深圳市宝安区西乡街道铁岗大道北4012号怡和科技园
1-5楼

Tel: +86755 29020111
Fax: +86755 26377110/9
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Test Report

Number: SZHH01241104

Tests Conducted

6 **Heavy Elements Analysis (except modelling clay)**

As per Section 4.3.5 and Section 8.3.2 to 8.3.5 of the ASTM Standard Consumer Safety Specification on Toy Safety F963-17, heavy elements migration content were determined by Inductively Coupled Argon Plasma Spectrometry.

Element	Result (ppm) @	Reporting limit (ppm)	Limit (ppm)	Client's Limit (ppm)
	Tested component (1500.53)(27)			
Sol. Barium (Ba)	ND	5	1000	500
Sol. Lead (Pb)	ND	5	90	30
Sol. Cadmium (Cd)	ND	5	75	40
Sol. Antimony (Sb)	ND	5	50	25
Sol. Selenium (Se)	ND	5	500	200
Sol. Chromium (Cr)	ND	5	50	40
Sol. Mercury (Hg)	ND	5	50	30
Sol. Arsenic (As)	ND	2.5	25	10

Sol. = Soluble
 ppm = part per million = mg/kg
 ND = Not detected
 @ = Single result for each test component/group

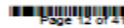
Tested Components: See component list in the last section of this report

7 **Physical and Mechanical Test**

As per 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.

	No. of Sample Tested	Sharp Point (1500.48)	Sharp Edge (1500.49)	Small Part (1501)
As received	4	P	NA	NA
Impact (1500.53(b))	2	P	NA	NA
Flexure (1500.53(d))	0	NA	NA	NA
Torque (1500.53(e))	2	P	NA	NA
Tension (1500.53(f))	2	P	NA	NA
Compression (1500.53(g))	2	P	NA	NA

Remark : P = Pass NA= Not Applicable



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West Side of 1/F and 3,4,5/F of Bldg 1, 1-5/F of Bldg 3, Yuanzhong Science and Technology Industrial Park, No.4012, Wuhe Ave. North, Bantian Street, Longgang District, Shenzhen
 深圳市宝安区西乡街道铁岗社区铁岗大道北4012号元中科技园1-5楼

Tel: +86755 28020111
 Fax: +86755 28337110/9
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Test Report

Number: SZHH01241104

Tests Conducted

8 Flammability Test

As per U.S. Code of Federal Regulations Title 16 Part 1500.44 for rigid and pliable solids.
Result: Ignited but self-extinguished before burn rate could be determined.

9 Tracking label assessment

As per consumer product safety improvement act (CPSIA) 2008 Section 103 tracking labels for children products

Tracking label was found on the package:



Item No.	4217
Name of manufacturer/distributor	Melissa & Doug
Location of production	UN
Date code	18045

Tracking label was on the product: Not applicable

4217
Not applicable
NOT applicable
NOT applicable

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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West Side of 1F and 3,4,5F of Bldg. 1, 1-5F of Bldg. 3, Yuanzhong Science and Technology Industrial Park, No.4012, White Ave, North, Bantian Street, Longgang District, Shenzhen
深圳市福田区梅林街道五和大道北4012号元正科技工业园1号楼3-4-5层及1栋西翼中座和3号楼整栋1-5层

Tel: +86755 28320111
Fax: +86755 28371109
www.intertek.com.cn





Test Report

Number: SZHH01241104

Tests Conducted

10 Total Lead Content

With reference to CPSC-CH-E1002-08.3 and/or CPSC-CH-E1001.08.3 and/or CPSC-CH-E1003-09.1 and followed by Inductively Coupled Argon Plasma Spectrometry.

Element	Result (mg/kg) B	Reporting Limit (mg/kg)	Limit (mg/kg)
Lead (Pb)	ND	10	50

Element	Result (mg/kg) B	Reporting Limit (mg/kg)	Limit (mg/kg)
Lead (Pb)	ND	10	100

The above limit was quoted from the Consent Judgment 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.

ND = Not detected (less than reporting limit)
B = Single result for each test component/group

Tested Components: See component list in the last section of this report

11 Total Lead (Pb) Content

As per test method CPSC-CH-E1003-09.1 and/or CPSC-CH-E1002-08.3 and/or CPSC-CH-E1001-08.3, and total Lead content was followed by Inductively Coupled Argon Plasma Spectrometry.

(I) Surface coating

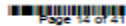
Element	Result (ppm) B	Reporting Limit (ppm)	Design Limit (ppm)
Lead (Pb)	ND	10	50

(II) Non-Surface Coating

Element	Result (ppm) B	Reporting Limit (ppm)	Design Limit (ppm)
Lead (Pb)	ND	10	40

ND = Not detected
B = Single result for each test component/group

Tested components: See component list in the last section of this report



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West Side of 1/F and 3-4,5/F of Bldg. 1, 1-5/F of Bldg. 3, Yuanzhong Science and Technology Industrial Park, No.4012, Wuhu Ave. North, Bantian Street, Longgang District, Shenzhen
深圳市宝安区西乡街道五和大道北 4012 号元正科技工业园 1 号楼 3-4、5 楼及 1 楼西翼中区和 3 号楼整栋 1-5 层

Tel: +86755 26020111
Fax: +86755 35371109
www.intertek.com.cn
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**Test Report**

Number: SZHH01241104

Tests Conducted

12 Phthalate Content

As per CPSC-CH-C1001-09.3, and followed by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

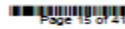
For accessible component

Test Item	Result (ppm) ^g	Reporting Limit (ppm)	Design Limit (ppm) ^w
	Tested component (1 to 15),(27)		
Dibutyl phthalate (DBP)	ND	30	100
D-(2-ethyl hexyl) phthalate (DEHP)	ND	30	100
Benzyl butyl phthalate (BBP)	ND	30	100
Sum (DBP+DEHP+BBP)	ND	—	1000
Di-iso-nonyl phthalate (DINP)	ND	30	100
Di-n-octyl phthalate (DNOP)	ND	30	100
Di-isodecyl phthalate (DIDP)	ND	30	100
Sum (DINP+DNOP+DIDP)	ND	—	1000
Di-n-hexyl Phthalate (DnHP/DHEXP)	ND	30	100
Di-n-Pentyl Phthalate (DPP/DPENP)	ND	30	100
Dicyclohexyl Phthalate (DCHP)	ND	30	100
Di-isobutyl Phthalate (DIBP)	ND	30	100
Di-iso-octyl phthalate (DIOCP)	ND	30	100
Diethyl phthalate (DEP)	ND	30	100
Monobutyl phthalate (MBP)	ND	30	100
Phthalic acid, bis (2-methoxyethyl) ester (Di-(2-Methoxyethyl)phthalate) (Dimethoxyethyl Phthalate) (Dimethyl glycol phthalate) (DMEP)	ND	30	100
Sum of 14 phthalates	ND	—	1000

ND = Not detected

^g = Single result for each test component/group^w = Design limit is only for reference of Melissa & Doug (MSD)

Tested Components: See component list in the last section of this report



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深圳市宝安区西乡街道五和大道北 4012 号元中科技工业园 1-5 楼Tel: +86755 26020111
Fax: +86755 35377118/9
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Test Report

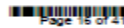
Number: 6ZHH01241104

Tests Conducted

13 **Mechanical and Physical Test**

As per European Standard on Safety of toys EN71-1:2014.

Clause	Testing Items	Assessment
4	General requirements	
4.1	Material	P
4.2	Assembly	NA
4.3	Flexible plastic sheeting	NA
4.4	Toy bags	NA
4.5	Glass	NA
4.6	Expanding materials	NA
4.7	Edges	P
4.8	Points and metallic wires	P
4.9	Protruding parts	NA
4.10	Parts moving against each other	NA
4.11	Mouth actuated toys and other toys intended to be put in the mouth	NA
4.12	Balloons	NA
4.13	Cords of toy kites and other flying toys	NA
4.14	Enclosures	NA
4.15	Toys intended to bear the mass of a child	NA
4.16	Heavy immobile toys	NA
4.17	Projectiles	NA
4.18	Aquatic toys and inflatable toys	NA
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	NA
4.20	Acoustics	NA
4.21	Toys containing non-electrical heat source	NA
4.22	Small balls	NA
4.23	Magnets	NA
4.24	Yo-yo balls	NA
4.25	Toys attached to food	NA
5	Toys intended for children under 36 months	
5.1	General requirements	NA
5.2	Soft-filled toys and soft-filled parts of a toy	NA
5.3	Plastic sheeting	NA
5.4	Cords, chains and electrical cables in toys	NA
5.5	Liquid filled toys	NA
5.6	Speed limitation of electrically-driven ride-on toys	NA
5.7	Glass and porcelain	NA
5.8	Shape and size of certain toys	NA
5.9	Toys comprising monofilament fibres	NA



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West Side of 1/F and 3,4,5/F of Bldg. 1, 1-5/F of Bldg.
 3, Yuanzhong Science and Technology Industrial
 Park, No.4012, Wuhe Ave. North, Bantian Street,
 Longgang District, Shenzhen
 深圳市宝安区西乡街道五和大道北4012号元正科技工
 业园1号楼3、4、5层及1栋西翼1楼和3号楼整栋
 1-5层

Tel: +86755 26020111
 Fax: +86755 35377110
www.intertek.com.cn
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Test Report

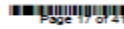
Number: SZHH01241104

Tests Conducted

Clause	Testing Items	Assessment
E.10	Small balls	NA
E.11	Play figures	NA
E.12	Hemispheric-shaped toys	NA
E.13	Suction cups	NA
E.14	Straps intended to be worn fully or partially around the neck	NA
6	Packaging	NA
7	Warnings, markings and instructions for use	
7.1	General	P
7.2	Toys not intended for children under 36 months	Pass
7.3	Latex balloons	NA
7.4	Aquatic toys	NA
7.5	Functional toys	NA
7.6	Hazardous sharp functional edges and points	NA
7.7	Projectiles	NA
7.8	Imitation protective masks and helmets	NA
7.9	Toy kites	NA
7.10	Roller skates, inlineskates and skateboards and certain other ride-on toys	NA
7.11	Toys intended to be attached to or strung across a cradle, cot, or perambulator	NA
7.12	Liquid-filled teethers	NA
7.13	Percussion caps specifically designed for use in toys	NA
7.14	Acoustics	NA
7.15	Toy bicycles	NA
7.16	Toys intended to bear the mass of a child	NA
7.17	Toys comprising monofilament fibres	NA
7.18	Toy scooters	NA
7.19	Rocking horses and similar toys	NA
7.20	Magneti/electrical experimental sets	NA
7.21	Toys with electrical cables exceeding 300 mm in length	NA
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months	NA

Remark : P = Pass NA = Not Applicable

= - Age warning statement, graphical symbol and the indication of hazard was found on the packaging.



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 3, Yuanzhong Science and Technology Industrial
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 Longgang District, Shenzhen
 深圳市宝安区西乡街道铁岗社区大涌北 4012 号中远科技工
 业园 1 号楼 3 - 4 - 5 层及 1 楼西翼中区和 3 号楼整栋
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**Test Report**

Number: SZHH01241104

Tests Conducted

Remark : Additional information according to the Toy Safety Directives 2009/48/EC requirement. These information also appears as a note within the EN71 but are not standard requirements:

1. Marking

The manufacturer's and Importer's name, registered trade name or registered trade mark, the address and the CE-marking shall be indicated on the toy or, where that is not possible, on its packaging or in a document accompany the toy. In addition, manufacturers shall ensure that their toys bear a type, batch, serial or model number or other element allowing their identification, or where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document accompanying the toy.

- Manufacturer's name was on the packaging.
- Manufacturer's address was on the packaging.
- Importer's name was on the packaging.
- Importer's address was on the packaging.
- Product identification code was on the packaging.
- CE-marking was on the packaging.

14 Flammability Test

As per European Standard on Safety of Toys EN71-2:2011+A1:2014

Clause	Testing Items	Assessment
4.1	General	P
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended to be worn by a child in play	NA
4.4	Toys intended to be entered by a child	NA
4.5	Soft filled toys	NA

Remark: P = Pass NA = Not applicable



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West Side of 1/F and 3, 4, 5/F of Bldg 1, 1-5/F of Bldg 3,
Yuanzhong Science and Technology Industrial
Park, No.4012, White Ave. North, Bantian Street,
Longgang District, Shenzhen
深圳市宝安区西乡街道铁岗社区4012号天祥科技工
业园1号楼3-4-5层及1栋西翼中座和3号楼整栋
1-5层

Tel: +86755 26320111
Fax: +86755 26377118/9
www.intertek.com.cn
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**Test Report**

Number: SZHH01241104

Tests Conducted

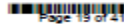
15 19 Toxic Element Migration Test

(A) Test Result

As per EN71-3:2013+A2:2017 and followed by Inductively Coupled Plasma Atomic Emission Spectrometry, Inductively Coupled Argon Mass Spectrometry, Ion Chromatography- Inductively Coupled Plasma-Mass Spectrometry, and Gas Chromatographic - Mass Spectrometry

Category (III): Scraped-off toy material

Element	Result (ppm)		Reporting Limit (ppm)	Limit (ppm)	Design Limit (ppm)
	Tested Component				
	(4)	(1)(a)(3)			
Lead (Pb)	ND	ND	10	150/230	23
Cadmium (Cd)	ND	ND	5	17	17
Mercury (Hg)	ND	ND	1.0	94	30
Arsenic (As)	ND	ND	1.0	47	16
Barium (Ba)	ND	ND	10	18750	500
Chromium (III) (Cr III)**	ND	ND	5.0	450	44
Antimony (Sb)	ND	ND	10	550	2.5
Selenium (Se)	ND	ND	10	450	200
Nickel (Ni)	ND	ND	10	930	930
Aluminium (Al)	ND	ND	300	70000	70000
Boron (B)	ND	ND	50	15000	15000
Cobalt (Co)	ND	ND	10	130	130
Copper (Cu)	ND	ND	10	7700	7700
Manganese (Mn)	ND	ND	10	15000	15000
Strontium (Sr)	ND	ND	100	35000	35000
Tin (Sn)	14	ND	2.5	180000	180000
Zinc (Zn)	ND	ND	100	45000	45000
Chromium (VI) (Cr VI)**	ND	ND	0.1	0.2	0.2
Organic Sn	5.54	ND	2.5	1.2	1.2



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3, Yuesheng Science and Technology Industrial
Park, No.4012, Wuhe Ave, North, Saitan Street,
Longgang District, Shenzhen
深圳市宝安区西乡街道铁岗社区 4012 号怡盛科技工
业园 1 号楼 3-4-5 层及 1 楼西面裙楼 3 号裙楼第
1-5 层

Tel: +86755 26020111
Fax: +86755 35377118
www.intertek.com.cn
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Test Report

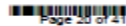
Number: SZHH01241104

Tests Conducted

Element	Result (ppm) & Tested Component (5.0g/20L (27))		Reporting Limit (ppm)	Limit (ppm)	Design Limit (μg (ppm))
Lead (Pb)	ND	10	10	160/23e	30
Cadmium (Cd)	ND	5	5	17	17
Mercury (Hg)	ND	1.0	1.0	34	30
Arsenic (As)	ND	1.0	1.0	47	10
Barium (Ba)	ND	10	10	18750	500
Chromium (III) (Cr III)**	ND	5.0	5.0	480	40
Antimony (Sb)	ND	10	10	550	25
Selenium (Se)	ND	10	10	450	200
Nickel (Ni)	ND	10	10	930	930
Aluminum (Al)	ND	300	300	70000	70000
Boron (B)	ND	50	50	15000	15000
Cobalt (Co)	ND	10	10	130	130
Copper (Cu)	ND	10	10	7700	7700
Manganese (Mn)	ND	10	10	15000	15000
Strontium (Sr)	ND	100	100	58000	58000
Tin (Sn)	ND	2.5	2.5	180000	180000
Zinc (Zn)	ND	100	100	45000	45000
Chromium (VI) (Cr VI)**	ND	0.1	0.1	0.2	0.2
Organic tin**	ND	2.0	2.0	12	12

Remark : mg/kg = milligram per kilogram
 ** = Unless the test results were marked with "B" or "Δ", Chromium (III) & Chromium (VI) and Organic tin contents were not directly determined and were derived from migration results of total chromium and tin respectively.
 - Organic tin test result was expressed as tributyl tin.
 ND = Not detected
 B = Single result for each test component/group
 a = The new lead migration limit [(2.0mg/kg for Category (I), 0.5mg/kg for category (II) and 23 mg/kg for Category (III)] were quoted from directive (EU) 2017/738 amending 2005/48/EC effective from 28 October 2018.
 μ = Design limit is only for reference of Melissa & Doug (M&D)
 # = Confirmation of Chromium (VI) test was performed on the tested component. And the reported value of migration of Chromium (III) = migration value of total Chromium - migration value of Chromium(VI).
 Δ = Confirmation test was performed on the tested component. The reported value was the sum of the migration values of Methyl tin, Butyl tin, Dibutyl tin, Tributyl tin, Tetra-butyl tin, n-Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin and Triphenyl tin after converted to Tributyl tin by calculation.

Tested Components: See component list in the last section of this report



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West Side of 1/F and 2, 4, 5/F of Bldg. 1, 1-5/F of Bldg. 3, Yuanzhong Science and Technology Industrial Park, No.4012, Wuhua Ave. North, Bantian Street, Longgang District, Shenzhen
 深圳市宝安区西乡街道铁岗社区 4012 号元中科技工业园 1 号楼 3、4、5 层及 1 栋西翼中座和 3 号楼整栋 1-5 层

Tel: +86755 26020111
 Fax: +86755 26371110
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Test Report

Number: SZHH01241104

Tests Conducted

(B) Categories of various toy materials

Category I: Dry, brittle, powder like or pilable

Solid toy material from which powder-like material is released during playing and semi-solid materials that may also leave residues on the hands during play. The material can be ingested. Contamination of the hands with the material may contribute to the oral exposure of the material. (e.g. the cores of colouring pencils, chalk, crayons, modelling clays and plaster).

Category II: Liquid or sticky

Fluid or viscous toy material, which can be ingested or to which dermal exposure may occur during playing. (e.g. liquid paints, finger paints, liquid ink in pens, glue sticks, slimes, bubble solution).

Category III: Scraped-off

Solid toy material with or without a coating, which can be ingested as a result of biting, tooth scraping, sucking or licking. (e.g. coatings, lacquers, plastics, paper, textiles, glass, ceramic, metallic, wooden, bone, leather and other materials).

16 Cadmium (Cd) Content

With reference to test method IEC 62321-5:2013, acid digestion method was used and total Cadmium content was determined by Inductively Coupled Argon Plasma Spectrometry.

(1) For surface coating

Element	Result (ppm) ± Tested Component	Reporting limit (ppm)
Cadmium (Cd)	ND	5

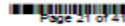
(2) For substrate

Element	Result (ppm) ± Tested Component	Reporting limit (ppm)
Cadmium (Cd)	ND	5

Requirement	REACH Regulation Annex XVII	
	Total Cd content	Design Limit w
	Wet parts: 100ppm	
	Surface coating: 1000ppm	
	Plastic: 100ppm	
	Metal parts of jewelry & hair accessories: 100ppm	
	30ppm for surface coating	
	40ppm for substrate	

ND = Not detected (less than reporting limit)
 S = Single result for each test component/group
 w = Design limit is only for reference of Melissa & Doug (M&D)

Tested Components: See component list in the last section of this report



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 深圳市宝安区西乡街道铁岗社区西乡4012号悦众科技工业园1号楼3-4-5层及1栋西翼中座和3号楼南座1-5层

Tel: +86755 26020111 Fax: +86755 26337110
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Test Report

Number: SZHH01241104

Tests Conducted

17 **Total Heavy Metal**

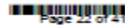
Acid digestion method was used and followed by Inductively Coupled Argon Plasma Spectrometry.

Element	Result (ppm)	Reporting Limit (ppm)	Limit (ppm)
	Tested Component (1)(a)(4)		
Total Lead(Pb)	ND	10	30
Total Mercury(Hg)	ND	10	ND
Total Nickel(Ni)	ND	10	10000

Element	Result (ppm) 8	Reporting Limit (ppm)	Limit (ppm)
	Tested Component (Site 15), (27)		
Total Lead(Pb)	ND	10	40
Total Mercury(Hg)	ND	10	ND
Total Nickel(Ni)	ND	10	10000

ppm = parts per million = mg/kg
 ND = Not detected
 8 = Single result for each test component/group

Tested components: See component list in the last section of this report



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West Side of 1/F and 3,4,5/F of Bldg. 1, 1-5/F of Bldg. 3, Yuanzhong Science and Technology Industrial Park, No.4012, White Ave. North, Bantian Street, Longgang District, Shenzhen.
 深圳市宝安区西乡街道五和大道北 4012 号元正科技工业园 1 号楼 3 - 4 - 5 层及 1 楼西翼中座和 3 号楼整栋 1-5 层

Tel: +86755 26020111
 Fax: +86755 3537711019
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Test Report

Number: SZHH01241104

Tests Conducted

18 Phthalate Content

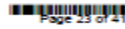
With reference to EN 14372:2004, and followed by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

For accessible component

Test Item	Result (ppm) 9		Reporting Limit (ppm)	Design Limit (ppm)
	Tested component	(1,2)/(3,4,5,6,7,8)		
Dibutyl phthalate (DBP)	ND	ND	30	100
Di-(2-ethyl hexyl) phthalate (DEHP)	ND	ND	30	100
Benzyl butyl phthalate (BBP)	ND	ND	30	100
Sum (DBP+DEHP+BBP)	ND	ND	—	1000
Di-isobutyl phthalate (DIBP)	ND	ND	30	100
Di-n-octyl phthalate (DNOP)	ND	ND	30	100
Di-iso-decyl phthalate (DIOP)	ND	ND	30	100
Sum (DIBP+DNOP+DIOP)	ND	ND	—	1000
Di-n-hexyl Phthalate (DINP/DHEHP)	ND	ND	30	100
Di-n-Propyl Phthalate (DPP/DPENP)	ND	ND	30	100
Dicyclohexyl Phthalate(DCHP)	ND	ND	30	100
Di-isobutyl Phthalate(DIBP)	ND	ND	30	100
Di-isooctyl phthalate (DIOP)	ND	ND	30	100
Diethyl phthalate (DEP)	ND	ND	30	100
Monobutyl phthalate (MBP)	ND	ND	30	100
Phthalic acid, bis (2-methoxyethyl) ester (Di-(2-Methoxyethyl)phthalate) (Dimethoxyethyl Phthalate) (Dimethyl glycol phthalate) (DMEP)	ND	ND	30	100
Sum of 14 phthalates	ND	ND	—	1000

ND = Not detected
 9 = Single result for each test component/group
 w = Design limit is only for reference of Melissa & Doug (M&D)

Tested Components: See component list in the last section of this report.



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Tel: +86755 26020111
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Total Quality Assured.

Test Report

Number: SZHH01241104

Tests Conducted

19 **Physical and Mechanical Test**

As per Canada Consumer Product Safety Act Toys Regulations (SOR/2011-17):

The submitted samples were undergone the use and abuse tests in accordance with the Canada Consumer Product Safety Act Toys Regulations(SOR/2011-17):	
Test	Parameter
Drop test	4 x 0.914 m
Pull test	44.5 N
Push test	44.5N

No.	Testing Items	Assessment
3	General - English and French bilingual statement	NA
Packaging		
4	(a) The opening perimeter is less than 14 inches	NA
	(b) The opening perimeter is more than 14 inches	NA
	Electrical hazard	
5	Electrically operated toys	NA
6	Electrically heated toys	NA
	Mechanical hazard	
7	Small parts	NA
8	Metal edges	NA
9	Wire frames	NA
10	Plastic edges	P
11	Wooden surfaces, edges and corners	NA
12	Glass	NA
13	Fasteners	NA
14	Folding mechanism, bracket or bracing	NA
15	Spring-wound driving mechanisms	NA
16	Projectile components	NA
17	Toys which a child can enter and which can be closed by a lid or door	NA
18	Stationary toy that is intended to bear the weight of a child	NA
	Auditory hazards	
19	Noise limit	NA
	Thermal hazards	
20	Heated surfaces, parts or substances	NA

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 3, Yuanzhong Science and Technology Industrial
 Park, No.4012, Wuhe Ave. North, Bantian Street,
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 3 楼 1 号梯 3 - 4 - 5 层及 1 楼西翼 1 楼和 3 号梯 3 楼
 1-5 层

Tel: +86755 29020111
 Fax: +86755 29377119
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Test Report

Number: SZHH01241104

Tests Conducted

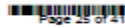
No.	Testing Items	Assessment
	Dolls, plush toys and soft toys	
28	Fastenings to attach parts, clothing or ornamentation	NA
29	Stuffing materials	NA
	(a) Clean and free from vermin	NA
	(b) Free from hard and sharp foreign matter	NA
30	Small parts -Squeaker, reed, valve or other similar device	NA
31	Eyes and noses	NA
	Plant seeds	
35	Plant seeds for making noise	NA
36	Plant seeds for stuffing material	NA
37	Pull and push toys that has a shaft-like handle	NA
38	Toy steam engines boilers	NA
40	Rattle	NA
41	Elastics	NA
42	Yo-yo type balls	NA
	(a) Stretchable cords	NA
	(b) Similar product	NA

Remark: P = Pass NA = Not Applicable

20 Cellulose Nitrate and Celluloid

Test Standard : Canada Consumer Product Safety Act Toys Regulation SOR 2011-17 section 21.

	Assessment	Requirement
(A) Cellulose Nitrate/Celluloid	Absent	Absent



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Test Report

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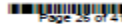
21 Toxic Elements Analysis

As per Method C-02.2, C-07, C-03 published in Health Canada Product safety reference manual Book 5 - Laboratory Policies and Procedures Part B: Test Methods Section, acid digestion and extraction methods were used and toxic elements content were determined by Inductively Coupled Plasma-mass Spectrometry.

Element	Result (ppm) @	Reporting Limit (ppm)	Limit (ppm)	Design Limit (ppm)
	Tested component (1/1014)			
Tot. Lead (Pb)	ND	10	50	30
Tot. Mercury (Hg)	ND	0.028	ND	ND
Sol. Cadmium (Cd)	ND	5	1000	48
Sol. Antimony (Sb)	ND	10	1000	25
Sol. Selenium (Se)	ND	5	1000	200
Sol. Arsenic (As)	ND	4	1000	40
Sol. Barium (Ba)	ND	10	1000	500

Tot. = Total
 Sol. = Soluble
 ND = Not detected
 @ = Single result for each test component/group
 w = Design limit is only for reference of Melissa & Doug (M&D)

Tested Components: See component list in the last section of this report



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**Test Report**

Number: SZHH01241104

Tests Conducted

22 Phthalate Content

As per Method C-34:2012 published in Health Canada product safety reference manual book 5 - laboratory policies and procedures part B: test method section and followed by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

For accessible component

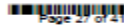
Test Item	Result (ppm) @	Reporting Limit (ppm)	Design Limit @ (ppm)
	Tested component (1, 2, 15) (27)		
Dibutyl phthalate (DBP)	ND	30	100
Di-2-ethyl hexyl phthalate (DEHP)	ND	30	100
Benzyl butyl phthalate (BBP)	ND	30	100
Sum (DBP+DEHP+BBP)	ND	—	1000
Di-iso-nonyl phthalate (DINP)	ND	30	100
Di-n-octyl phthalate (DNOP)	ND	30	100
Di-iso-decyl phthalate (DIDP)	ND	30	100
Sum (DINP+DNOP+DIDP)	ND	—	1000
Di-n-hexyl phthalate (DnHP/DHEXP)	ND	30	100
Di-n-Pentyl phthalate (DnPP/DPENP)	ND	30	100
Dicyclohexyl Phthalate (DCHP)	ND	30	100
Di-Isobutyl Phthalate (DIBP)	ND	30	100
Di-(iso-octyl) phthalate (DIOP)	ND	30	100
Diethyl phthalate (DEP)	ND	30	100
Monobutyl phthalate (MBP)	ND	30	100
Phthalic acid, bis (2-methoxyethyl) ester (Di-(2-Methoxyethyl)phthalate)	ND	30	100
(Dimethoxyethyl Phthalate) (Dimethyl glycol phthalate) (DMEP)	ND	—	1000
Sum of 14 phthalates	ND	—	1000

ND = Not detected

@ = Single result for each test component/group

u = Design limit is only for reference of Melissa & Doug (M&D)

Tested Components: See component list in the last section of this report



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 深圳市宝安区西乡街道铁岗大道北4012号元中科技工业园1号楼3、4、5层及1号楼西座1-5号楼层

Tel: +86755 28020111
 Fax: +86755 26377118
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Test Report

Number: SZHH01241104

Tests Conducted

23 **Phthalate Content**

With reference to CPSC-CH-C1001-09.3 and followed by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Test Item	CAS No.	Result (Unit)	Reporting	Limit
		Tested Component (100/15/177)	Limit (mg)	(%)
Dibutyl phthalate (DBP)	84-74-2	ND	0.01	0.1
Di-(2-ethyl hexyl) phthalate (DEHP)	117-81-7	ND	0.01	0.1
Benzyl butyl phthalate (BBP)	85-68-7	ND	0.01	0.1
Di-nonyl phthalate (DINP)	28553-12-0/ 68515-48-0	ND	0.01	-

The above limit was quoted from the Consent Judgment No. CIV-1103513 settled by superior court of the State of California for the county of Marin, for jewelry based on the California Proposition 65.

ND = Not detected (less than reporting limit)
B = Single result for each test component/group

Tested Components: See component list in the last section of this report

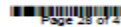
24 **Physical and Mechanical Tests**

As per the Australian / New Zealand Standard AS/NZS 8124.1:2016 safety aspects related to mechanical and physical properties.

The submitted samples were undergone the normal use and the following reasonable foreseeable abuse tests in accordance with the Clause 5.24 of AS/NZS 8124.1:2016 before the assessment of the relevant requirement in Clause 4 :

Clause	Test	Parameter
5.24.2	Drop test	4x93±5cm
5.24.5	Torque test	0.45±0.02Nm
5.24.6	Tension test	70±2N
5.24.7	Compression test	136±2N

Section	Testing Items	Assessment
4.1	Normal use	P
4.2	Reasonably foreseeable abuse	P
4.3	Material	P
4.4	Small parts	NA
4.5	Shape, size and strength of certain toys	NA



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Tel: +86755 26020111
Fax: +86755 35371159
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**Test Report**

Number: SZHH01241104

Tests Conducted

Section	Testing Items	Assessment
4.6	Edges	P
4.7	Points	P
4.8	Projections	NA
4.9	Metal wires and rods	NA
4.10	Plastic film or plastic bags in packaging and in toys	NA
4.11	Cords and elastic	NA
4.12	Folding mechanisms	NA
4.13	Holes, clearances and accessibility of mechanisms	NA
4.14	Springs	NA
4.15	Stability and overload requirement	NA
4.16	Enclosures	NA
4.17	Simulated protective equipment, such as helmets, hats and goggles	NA
4.18	Projectile toys	NA
4.19	Rotors and propellers	NA
4.20	Aquatic toys	NA
4.21	Braking	NA
4.22	Toy bicycles	NA
4.23	Speed limitation of electrically driven ride-on toys	NA
4.24	Toys containing a heat source	NA
4.25	Liquid-filled toys	NA
4.26	Mouth-actuated toys	NA
4.27	Toy roller skates, toy inline skates and toys skateboards	NA
4.28	Percussion caps	NA
4.29	Acoustic requirements	NA
4.30	Toy scooters	NA
4.31	Magnets and magnetic components	NA
Annex B	Safety-labeling guidelines and manufacturer's markings	P
Annex D	Toy gun marking	NA

Remark : P = Pass NA = Not applicable



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Park, No.4012, Wuhe Ave. North, Bantian Street,
Longgang District, Shenzhen
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业园1号楼3-4-5层及1栋西翼中座和3号楼整栋
1-5层

Tel: +86755 26020111
Fax: +86755 35371199
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Test Report

Number: SZHH01241104

Tests Conducted

25 **Flammability Test**

As per Australian / New Zealand Standard on Safety of Toys AS/NZS 8124.2:2015

Clause	Testing Items	Assessment
4.1	General	P
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended to be worn by a child in play	NA
4.4	Toys intended to be entered by a child	NA
4.5	SoR-filled toys	NA

Remark: P = Pass NA = Not Applicable

Type of gas used in the test burner: butane

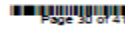
26 **Toxic Elements Analysis**

As per the Australian / New Zealand Standard AS/NZS 8124.3:2012/Amdt 1:2015, acid extraction method was used and toxic elements content were determined by Inductively Coupled Argon Plasma Spectrometry.

Element	Result (ppm) & Tested component	Reporting limit (ppm)	Limit (ppm)	Design Limit (ppm)
	(1 to 20), (27)			
Sol. Barium (Ba)	ND	5	1000	500
Sol. Lead (Pb)	ND	5	50	30
Sol. Cadmium (Cd)	ND	5	75	40
Sol. Antimony (Sb)	ND	5	50	25
Sol. Selenium (Se)	ND	5	500	200
Sol. Chromium (Cr)	ND	5	50	40
Sol. Mercury (Hg)	ND	5	50	30
Sol. Arsenic (As)	ND	5	25	10

Sol. = Soluble
 ND = Not detected
 B = Single result for each test component/group
 w = Design limit is only for reference of Melissa & Doug (MSD)

Tested Components: See component list in the last section of this report



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 深圳市宝安区西乡街道铁岗社区 4012 号元正科技工业园 1 号楼 3-4-5 层及 1 栋西翼中座和 3 号楼裙楼 1-5 层

Tel: +86755 26020111
 Fax: +86755 26077115/9
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Test Report

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Tests Conducted

27 Toxic Elements Analysis

As per Mexican Official Standard NOM-252-SSA1-2011 for toys and school supplies, acid extraction was used and toxic elements content were determined by Inductively Coupled Argon Plasma Spectrometry.

Element	Result (mg/kg) @	Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component		
	(1/60/20/1/2/1)		
Sol. Barium (Ba)	ND	5	1000
Sol. Lead (Pb)	ND	5	90
Sol. Cadmium (Cd)	ND	5	75
Sol. Antimony (Sb)	ND	5	60
Sol. Selenium (Se)	ND	5	500
Sol. Chromium (Cr)	ND	5	60
Sol. Mercury (Hg)	ND	5	60
Sol. Arsenic (As)	ND	2.5	25

mg/kg = milligram per kilogram
 Sol = Soluble
 ND = Not detected (less than reporting limit)
 @ = Single result for each test component/group

Tested Components: See component list in the last section of this report

28 Mexican Labeling Requirement

As per Mexican Standard NOM-015-SCFI-2007 Commercial Information- Toy Labeling

Remark : Not tested per client's request.



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 业园1号楼3-4-5层及1楼西面中区和3号楼整栋
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 Fax:+86755 26377110/9
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**Test Report**

Number: SZHH01241104

Tests Conducted

29 Toxic Elements Analysis

As per 94/62/EC and amendment 2004/12/EC & 2005/20/EC & 2013/2/EU & (EU) 2015/720 Directive on packaging and packaging waste, Hexavalent Chromium was used alkaline digestion method and determined by UV-Visible Spectrophotometry; Lead, Cadmium and Mercury was used acid digestion method and determined by Inductively Coupled Argon Plasma Spectrometry.

Element	Result (ppm) 8	Reporting limit (ppm)	Limit (ppm)
	Tested component (Zn+As+Pb+Cu+Ag+Bi+Se)		
Lead (Pb)	ND	5	—
Cadmium (Cd)	ND	5	—
Mercury (Hg)	ND	5	—
Chromium VI (Cr (VI))	ND	1	—
Sum of Pb, Cd, Hg and Cr (VI)	ND	—	100

ppm = part per million = mg/kg
 ND = Not detected (less than reporting limit)
 8 = Single result for each test component/group

Tested components: See component list in the last section of this report

30 Toxic Elements Analysis

As per Model Toxics in Packaging Legislation requirement of packaging and packaging components, acid digestion method was used and toxic elements contents were determined by Inductively Coupled Argon Plasma Spectrometry, and Hexavalent Chromium content was determined by UV-Visible Spectrophotometry.

Element	Result (ppm) 8	Reporting limit (ppm)	Limit (ppm)
	Tested component (Zn+As+Pb+Cu+Ag+Bi+Se)		
Lead (Pb)	ND	5	—
Cadmium (Cd)	ND	5	—
Mercury (Hg)	ND	5	—
Chromium VI (Cr (VI))	ND	1	—
Sum of Pb, Cd, Hg and Cr (VI)	ND	—	100

ppm = parts per million = mg/kg
 ND = Not detected (less than reporting limit)
 8 = Single result for each test component/group

Tested components: See component list in the last section of this report



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Tel: +86755 26020111
 Fax: +86755 26071189
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Test Report

Number: SZHH01241104

Tests Conducted

31 **Monomers Migration**

As per EN71-10: 2005 and EN71-11: 2005.

Test Item	CAS No.	Result (mg/kg) θ	Reporting limit (mg/L)	Limit (mg/L)
		Tested component (7=8,9,10,11,12,13,14=15), (16=17,18),19=20,21,22=23,24=25,26)		
Acrylamide	75-06-1	ND	0.02(max.)	0.02(max.)
Bisphenol A	80-05-7	ND	0.01(max.)	0.1(max.)
Formaldehyde	50-00-0	ND	0.5(max.)	2.5(max.)
Phenol	105-90-2	ND	5(max.)	15(max.)
Styrene	100-42-5	ND	0.2(max.)	0.75(max.)

ND = Not detected (less than reporting limit)
 θ = Single result for each test component/group

Tested Components: See component list in the last section of this report

32 **Solvent Migration**

As per EN71-10: 2005 and EN71-11: 2005.

Test Item	Result (mg/L)	Reporting limit (mg/L)	Limit (mg/L)
	Tested component (12=14=15)		
Trichloroethylene	ND	0.02	0.02
Dichloromethane	ND	0.03	0.05
Methanol	ND	0.5	5
Nitrobenzene	ND	0.02	0.02
Cyclohexanone	ND	0.5	46
3,5-Dimethyl-2-cyclohexane-1-one	0.7	0.5	3
Toluene	ND	0.5	2
Ethylbenzene	ND	0.5	2
Xylene (all isomers)	ND	0.5	2
Sum of (2-methoxyethyl acetate, 2-ethoxyethanol, 2-ethoxyethyl acetate, bis (2-methoxyethyl) ether, 2-methoxypropyl acetate)	ND	0.3	0.5



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 深圳市宝安区西乡街道铁岗社区 4012 号元通科技工业园 1 号楼 3、4、5 层及 1 栋西翼甲座和 3 号楼整栋 1-5 层

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Test Report

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Tests Conducted

Test Item	Result (mg/L) 9		Reporting limit (mg/L)	Limit (mg/L)
	Tested component (7=8=9)(10=11=12)(15=17=18)(19=20=21)(22=23=24)(25)			
Trichloroethylene	ND		0.02	0.02
Dichloromethane	ND		0.03	0.06
Methanol	ND		0.5	5
Nitrobenzene	ND		0.02	0.02
Cyclohexanone	ND		0.5	45
3,5-dimethyl-2-cyclohexane-1-one	ND		0.5	3
Toluene	ND		0.5	2
Ethylbenzene	ND		0.5	1
Xylene (all isomers)	ND		0.5	3
Sum of (2-methoxyethyl acetate, 2-ethoxyethanol, 2-ethoxyethyl acetate, bis (2-methoxyethyl) ether, 2-methoxypropyl acetate)	ND		0.3	0.5

ND = Not detected/less than reporting limit
9 = Single result for each test component/group

Tested Components: See component list in the last section of this report

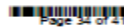
33 **Plasticizer Migration**

As per EN71-10: 2005 and EN71-11: 2005.

Test Item	CAS No.	Result (mg/L) 9		Reporting limit (mg/L)	Limit (mg/L)
		Tested component (7=8=9)(10=11=12)(13=14=15)(16=17=18)(19=20=21)(22=23=24)(25)(26)			
Triphenyl phosphite	115-85-6	ND		0.03	0.03
Tri-n-cresyl phosphite	78-30-8	ND		0.03	0.03
Tri-m-cresyl phosphite	563-04-2	ND		0.03	0.03
Tri-p-cresyl phosphite	78-32-0	ND		0.03	0.03

ND = Not detected/less than reporting limit
9 = Single result for each test component/group

Tested Components: See component list in the last section of this report



Intertek Testing Services Shenzhen Ltd.
新加坡祥興 检测有限公司

West Side of 1F and 3,4,5F of Bldg. 1, 1-5F of Bldg. 3, Yuanzhong Science and Technology Industrial Park, No.4012, Wuhe Ave. North, Bantian Street, Longgang District, Shenzhen
深圳市宝安区西乡街道铁岗社区铁岗大道4012号元中科技园
3层1号楼3-4-5层及1楼西翼中区和3号楼整栋1-5层

Tel: +86755 26020111
Fax: +86755 26337110/9
www.intertek.com.cn
www.intertek.com



**Test Report**

Number: SZHH01241104

Tests Conducted

34 **Physical And Mechanical Tests**

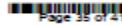
As per ASTM Standard Specification for Consumer Product Safety for Children's Jewelry F2923-14 Section 12 Mechanical Requirements for Children's Jewelry.

The submitted samples were undergone the use and abuse tests in accordance with the U.S. code of Federal Regulations Title 16 Part 1500.50:

Test	FHSA	Parameter
Impact test	Section 1500.53(b)	4 x 3.0 ft
Torque test	Section 1500.53(e)	4 in-lbf
Tension test	Section 1500.53(f)	15 lbf
Compression test	Section 1500.53(g)	30 lbf

Section	Testing Items	Assessment
12.1	Magnets	NA
12.2	Breakaway features and releases	NA
12.3	Sharp Points, Sharp Edges, Use and Abuse	P
12.4	Small parts	NA
12.5	Other recommended cautionary labeling	NA
12.6	Children's jewelry containing batteries	NA
12.7	Suction tongue studs	P

Remark : P = Pass NA = Not applicable



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深圳天祥质量技术服务有限公司

West Side of 1/F and 3,4,5/F of Bldg. 1, 1-5/F of Bldg.
3, Yuesheng Science and Technology Industrial
Park, No.4012, White Ave, North, Bantian Street,
Longgang District, Shenzhen
深圳市宝安区西乡街道五和大道北 4012 号天祥检测工
业园 1 号楼 3-4-5 层及 1 栋西翼中楼 3 号楼 1-5 层

Tel: +86755 26020111
Fax: +86755 26377119
www.intertek.com.cn
www.intertek.com



**Test Report**

Number: SZHH01241104

Tests Conducted

35 Toxic Elements Analysis in Surface Coating

As per ASTM F2923-14 Consumer Product Safety for Children's Jewelry, test method Section 8.3.2 to 8.3.4 of ASTM F963-11 was used and toxic elements content were determined by Inductively Coupled Argon Plasma Spectrometry.

Element	Result (mg/kg) B		Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component (1)(a)(4)			
Sol. Barium (Ba)	ND		5	1000
Sol. Cadmium (Cd)	ND		5	75
Sol. Antimony (Sb)	ND		5	50
Sol. Selenium (Se)	ND		5	500
Sol. Chromium (Cr)	ND		5	50
Sol. Mercury (Hg)	ND		5	50
Sol. Arsenic (As)	ND		2.5	25

ND = Not detected (less than reporting limit)

Sol = Soluble

B = Single result for each test component/group

Tested Components: See component list in the last section of this report

36 Total Lead (Pb) Content in Surface Coating

As per ASTM F2923-14 Consumer Product Safety for Children's Jewelry, test method CPSC-CH-E1003-09.1 was used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

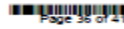
Element	Result (ppm) B		Reporting Limit (ppm)	Limit (ppm)
	Tested Component (1)(a)(4)			
Lead (Pb)	ND		10	90

ppm = part per million = mg/kg

ND = Not detected (less than reporting limit)

B = Single result for each test component/group

Tested Components: See component list in the last section of this report



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West Side of 1/F and 3,4,5/F of Bldg. 1, 1-5/F of Bldg. 3, Yuenzhong Science and Technology Industrial Park, No.4012, White Ave. North, Shenzhen Street, Longgang District, Shenzhen
深圳市宝安区西乡街道五和大道北 4012 号天祥科技工业园 1 号楼 3 - 4 - 5 层及 1 楼西翼中区和 3 号楼整栋 1-5 层

Tel: +86755 26020111
Fax: +86755 35371189
www.intertek.com.cn
www.intertek.com





Test Report

Number: SZHH01241104

Tests Conducted

37 **Total Lead content in Non-Surface Coating Materials (Substrate)**

As per ASTM F2923-14 Consumer Product Safety for Children's Jewelry, test method CPSC-CH-E1002-08.3 and/or CPSC-CH-E1001-08.3 were used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

Element	Result (ppm) #	Reporting Limit (ppm)	Limit (ppm)
	Tested Component (Site) (15) (27)		
Lead (Pb)	ND	10	100

ppm = part per million = mg/kg
 ND = Not detected (less than reporting limit)
 # = Single result for each test component/group

Tested Components: See component list in the last section of this report

38 **Cadmium (Cd) content in Accessible Plastic/Metal**

As per ASTM F2923-14 Consumer Product Safety for Children's Jewelry, test method CPSC-CH-E1003-09.1 and/or CPSC-CH-E1002-08.3 and/or CPSC-CH-E1001-08.3 were used and total Cadmium content was determined by Inductively Coupled Argon Plasma Spectrometry.

Element	Result (ppm) #	Reporting Limit (ppm)	Limit (ppm)
	Tested Component (Site) (15) (27)		
Cadmium (Cd)	ND	5	300

ppm = parts per million =mg/kg
 ND = Not detected (less than reporting limit)
 # = Single result for each test component/group

Tested Components: See component list in the last section of this report



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West Side of 1/F and 3,4,5/F of Bldg. 1, 1-5/F of Bldg. 3, Yuzhong Science and Technology Industrial Park, No.4012, Wuhua Ave. North, Bantian Street, Longgang District, Shenzhen
 深圳市福田区梅莲五和大道4012号天祥科技工业园1号楼3-4-5层及1栋西翼中间和3号楼整层1-5层

Tel: +86755 28020111
 Fax: +86755 35371109
www.intertek.com.cn
www.intertek.com





Test Report

Number: SZHH01241104

Tests Conducted

39 Detection Of Amines Derived From Azo Colorants and Azodyes

By Gas Chromatographic - Mass Spectrometric (GC-MS) And High Performance Liquid Chromatographic (HPLC) Analysis.

Test Method : EN 14362-1 : 2012 for Textile Material
 EN ISO 17234-1: 2010 for Leather Material
 EN 14362-3 : 2012 & EN ISO 17234-2: 2011 for 4-Aminoazobenzene

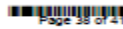
Test Item	Gas No.	Result (mg/kg) & Tested Component (13/02/20)
1 4-Aminodiphenyl	92-67-1	ND
2 Benzidine	92-87-5	ND
3 4-Chloro-o-Toluidine	95-99-2	ND
4 2-Naphthylamine	91-55-5	ND
5 o-Aminoazobenzene	97-86-3	ND
6 2-Amino-4-Nitrotoluene	99-55-8	ND
7 p-Chloroaniline	106-47-8	ND
8 2,4-Diaminodiphenylamine	215-95-4	ND
9 4,4'-Diaminodiphenylmethane	101-77-9	ND
10 3,3'-Dichlorobenzidine	31-34-1	ND
11 3,3'-Dimethoxybenzidine	119-90-4	ND
12 3,3'-Dimethylbenzidine	119-93-7	ND
13 4,4'-diaminodiphenylmethane	839-99-0	ND
14 p-Cresidine	120-71-8	ND
15 4,4'-Methylene-Bis(2-Chloroaniline)	101-14-4	ND
16 4,4'-Oxydianiline	101-80-4	ND
17 4,4'-Thiodianiline	139-65-1	ND
18 o-Toluidine	95-53-4	ND
19 2,4-Gluclenediamine	95-80-7	ND
20 2,4,5-Trimethylaniline	137-17-7	ND
21 o-Anisidine	90-04-0	ND
22 4-Aminoazobenzene	60-09-3	ND

ND = Not detected (less than reporting limit)
 Reporting limit = 5mg/kg
 Requirement = 30mg/kg (Max.)
 9 = Single result for each test component/group

According to the official method EN 14362-1:2012 and EN ISO 17234-1:2010, if each amine is found < 30 mg/kg, azo colorants which can release the listed aromatic amines were not detected.

According to the official method EN 14362-3:2012 and EN ISO 17234-2:2011, if 4-aminoazobenzene is found < 30 mg/kg, azo colorants which can release 4-aminoazobenzene was not detected.

Tested components: See component list in the last section of this report



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West Side of 1/F and 3,4,5/F of Bldg. 1, 1-5/F of Bldg. 3, Yuanzhong Science and Technology Industrial Park, No.4012, Wuhua Ave. North, Bantian Street, Longgang District, Shenzhen
 深圳市宝安区西乡街道五和大道北4012号元众科技工业园1号楼3-4-5层及1楼西翼中区和3号楼整栋1-5层

Tel:+86755 26020111
 Fax:+86755 26377110/9
www.intertek.com.cn
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Test Report

Number: SZHH01241104

Tests Conducted

40 **Free Formaldehyde Content**

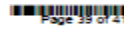
As per test method ISO 14184-1: 2011, formaldehyde content was determined by UV-Visible Spectrophotometer.

Test Item	Result (mg/kg)			Reporting Limit (mg/kg)	Limit (mg/kg)
	(25)	(27)	(28)		
Free Formaldehyde	7	5	5	5	15

Test Item	Result (mg/kg) @ tested components			Reporting Limit (mg/kg)	Limit (mg/kg)
	(21)(25)(26)	(27)	(28)		
Free Formaldehyde	ND			5	15

ND = Not detected (less than reporting limit)
 @ = Single result for each test component/group

Tested Components: See component list in the last section of this report



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West Side of 1/F and 3, 4, 5/F of Bldg. 1, 1-5/F of Bldg. 3, Yuanzheng Science and Technology Industrial Park, No.4012, Wuhu Ave. North, Bantian Street, Longgang District, Shenzhen
 深圳市宝安区西乡街道铁岗社区4012号天祥检测工业园1号楼3-4-5层及1楼西翼半座和3号楼整栋1-5层

Tel: +86755 29020111
 Fax: +86755 35377110/9
www.intertek.com.cn
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**Test Report**

Number: SZHH01241104

Tests Conducted

Component list:

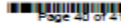
- (1) Silver color glitter with glue on soft plastic (bracelet of both styles).
- (2) Purple/silver color glitter with glue on soft plastic (glitter sticker of both styles) (sample weight: 17.4mg).
- (3) Dull pink/silver color glitter with glue on soft plastic (glitter sticker of both styles) (sample weight: 22.3mg).
- (4) Silver color glitter with glue on soft plastic (glitter sticker of both styles) (sample weight: 22.4mg).
- (5) Transparent soft plastic with backed (sticker of both styles).
- (6) White soft plastic excluding coatings (glitter sticker of both styles).
- (7) Transparent fuchsia soft plastic (bracelet of both styles).
- (8) Transparent bright pink soft plastic (bracelet of both styles).
- (9) Transparent pale blue soft plastic (bracelet of both styles).
- (10) Transparent green soft plastic (bracelet of both styles).
- (11) Transparent pale purple soft plastic (bracelet of both styles).
- (12) Transparent purple soft plastic (bracelet of both styles).
- (13) Pale grey Velcro hook (fastener on bracelet of both styles).
- (14) Pale purple Velcro hook (fastener on bracelet of both styles).
- (15) Pale blue Velcro hook (fastener on bracelet of both styles).
- (16) Dull pink Velcro hook (fastener on bracelet of both styles).
- (17) Dull pink Velcro loop (fastener on bracelet of both styles).
- (18) Green Velcro loop (fastener on bracelet of both styles) (sample weight: 77.3mg).
- (19) Purple Velcro loop (fastener on bracelet of both styles) (sample weight: 88.4mg).
- (20) Dull yellow Velcro loop (fastener on bracelet of both styles).
- (21) Transparent plastic film (shrinking film of both styles) (sample weight: 87.1mg).
- (22) 20mm transparent cello tape (fastener on both styles).
- (23) Semi-transparent double side adhesive tape (fastener on shrinking film of both styles, fastener back of release paper of both styles).
- (24) Transparent plastic sheet (release paper of both styles).
- (25) White paper label with coatings (sticker and warning label on shrinking film of #14217, sticker on shrinking film of #4217).
- (26) Brown/white corrugated paper board with coatings (color box, tray of both styles).
- (27) Transparent yellow soft plastic (bracelet of both styles).

.....
 The sample weight in brackets were for soluble heavy elements analysis only.

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 深圳天祥质量检测服务有限公司

West Side of 1/F and 3, 4, 5/F of Bldg. 1, 1-5/F of Bldg.
 3, Yuanzhong Science and Technology Industrial
 Park, No.4012, Wuhua Ave. North, Bantian Street,
 Longgang District, Shenzhen
 深圳市宝安区西乡街道铁岗和大道北 4012 号元中科技工
 业园 1 号楼 3 - 4 - 5 层及 1 楼西翼中座和 3 号楼整栋
 1-5 层

Tel: +86755 26020111
 Fax: +86755 35377110/9
www.intertek.com.cn
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Test Report

Number: SZHH01241104

Tests Conducted



End of report

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West Side of 1st and 3, 4 5/F of Bldg. 1, 1-5/F of Bldg.
3, Yantun Science and Technology Industrial
Park, No.4012, Wuhu Ave. North, Bantian Street,
Longgang District, Shenzhen
深圳市宝安区西乡街道铁岗社区 4012 号天祥检测工
业园 1 号楼 3-4-5 层及 1 楼西翼 1 楼和 3 号楼 1-5 层

Tel: +86755 26020111
Fax: +86755 26027110
www.intertek.com.cn
www.intertek.com

