

# GUANGDONG WONDER TESTING INTERNATIONAL CO., LTD.

## TEST REPORT

Report No.: WDX22090127EN-3

Applicant: ABLE CONNECTION LIMITED

Address: ROOM 1527-1530, 15TH FLOOR, BUILDING  
26-29, HUANGSHA AVENUE, LIWAN  
DISTRICT, GUANGZHOU CITY,  
GUANGDONG , CHINA

Date: Sep. 27, 2022

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The following merchandise was (were) submitted and identified by client as:

**Sample Name:** Happy New Year & Valentine's & St. Patrick & Patriotic Necklaces (for age 6+)

**Number of Sample:** 13pcs

**Main Material:** Plastic

**Applicant's Specified**

**Testing Age Group:** 6+

**Tested Age Grading:** 6+

**Sample Received Date:** Sep. 01, 2022

**Completed Date:** Sep. 27, 2022

**Test Result(s):** Please refer to next page(s).

**Test Requested and Conclusion(s):**

No.	Test Sample(s)	Standard(s) and Requirement(s)	Conclusion(s)	Signed by
1	Submitted sample	ASTM F963-17 - Physical and Mechanical Properties (See the next page for specific sections)	PASS	<i>Shina Wang</i>
2	Submitted sample	ASTM F963-17 - Flammability	PASS	
3	Tested materials of submitted samples	ASTM F963-17 Section 4.3.5.1 - Total Lead content in paint and surface coating	PASS	<i>Andy zhu</i>
4	Tested materials of submitted samples	ASTM F963-17 Section 4.3.5.1 - Soluble Heavy Metals content in paint and surface coating	PASS	
5	Tested materials of submitted samples	ASTM F963-17 Section 4.3.5.2 - Total Lead content in substrate material	PASS	
6	Tested materials of submitted samples	ASTM F963-17 Section 4.3.5.2 - Soluble Heavy Metals content in substrate material	PASS	

**Test Result(s):**

**ASTM F963-17 - Mechanical and Physical Properties**

Section(s)	Test Item(s)	Conclusion(s)
		14
4	Safety requirements	PASS
4.1	Material quality	PASS
4.2	Flammability	PASS
4.3.7	Stuffing Materials	NA
4.4	Electrical/thermal energy	NA
4.5	Sound producing toys	NA
4.6	Small objects	NA
4.7	Accessible edges	PASS
4.8	Projections	NA
4.9	Accessible points	PASS
4.10	Wires or rods	NA
4.11	Nails and fasteners	NA
4.12	Plastic film	NR*
4.13	Folding mechanisms and hinges	NA
4.14	Cords and elastics in toys	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	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	NA
4.30	Toy gun marking	NA
4.31	Balloons	NA

Section(s)	Test Item(s)	Conclusion(s)
		14
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	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
5	Labeling Requirement	NR*
5.1	Federal government Requirements	NA
5.2	Age grading labeling	NR*
5.3	Safety labeling requirements	NA
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	NA
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
5.12	Toy caps	NA
5.13	Art materials	NA
5.14	Electric toys	NA
5.15	Battery operated toys	NA
5.16	Promotional materials	NR*
5.17	Magnets	NA
6	Instructional Literature	NR*
6.1	Definition and description	NR*
6.2	Crib and playpen toys	NA
6.3	Mobiles	NA
6.4	Toys intended to be assembled by an adult	NA
6.5	Battery operated toys	NA

Section(s)	Test Item(s)	Conclusion(s)
		14
6.6	Battery Powered Ride-on Toys	NA
6.7	Toys in Contact with Food	NA
6.8	Toy Chests	NA
7	Producer's Marking	NR*
7.1	Name of the producer or the distributor	NR*
	Address of the producer or the distributor	NR*
7.2	Battery powered ride on toys	NA
7.3	Toy Chests	NA

- Note:**
1. The test age group of the sample is specified by client.
  2. The name and address of the producer or the distributor shall be marked on the toy or the package.

### Use and Abuse Tests

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:

Section(s)	Test Item(s)	FHSA	Test Parameter(s)
8.7	Impact Test	Section 1500.53(b)	4×3.0 ft
8.8	Torque Test	Section 1500.53(e)	±180°10s
8.9	Tension Test	Section 1500.53(f)	15 lbf 10s

### Test Result(s):

#### ASTM F963-17 - Annex A5 Flammability

Sample Description(s)	Ignition Point	Burn Length (inch)	Burn Time(s) (sec.)	Burn Rate (inch/sec.)	Limit(s) (inch/sec.)	Conclusion(s)
Pearl necklace	Edge	2.2	60	0.04	0.10	PASS

- Note:** All styles of the submitted toy samples (and its accessories) was/were tested, the above result only showed the most severe burn rate of the samples.



**Test Result(s):**

**ASTM F963-17 Section 4.3.5.1 - Total Lead content in paint and surface coating<sup>n</sup>**

Method: With reference to ASTM F963-17 Section 8.3.1, analyzed by Atomic Absorption Spectroscopy (AAS) or Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES).

Material No.	RL (mg/kg)	Limit(s) (mg/kg)	Result(s) (mg/kg)	Conclusion(s)
1+2+3	10	90	ND	PASS
4+5+6	10	90	ND	PASS
12	10	90	ND	PASS

**ASTM F963-17 Section 4.3.5.1 - Soluble Heavy Metals content in paint and surface coating**

Method: With reference to ASTM F963-17 Section 8.3.2 to Section 8.3.5, analyzed by Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES).

Test Element(s)	Pb	Sb	As	Ba	Se	Cd	Hg	Cr	Conclusion(s)
RL (mg/kg)	5	5	2.5	5	5	5	2.5	2.5	
Limit(s) (mg/kg)	90	60	25	1000	500	75	60	60	
Material No.	Result(s) (mg/kg)								PASS
1	ND	ND	ND	ND	ND	ND	ND	ND	
2	ND	ND	ND	ND	ND	ND	ND	ND	
3	ND	ND	ND	ND	ND	ND	ND	ND	
4	ND	ND	ND	ND	ND	ND	ND	ND	
5	ND	ND	ND	ND	ND	ND	ND	ND	
6	ND	ND	ND	7	ND	ND	ND	ND	
12	ND	ND	ND	ND	ND	ND	ND	ND	

**ASTM F963-17 Section 4.3.5.2 - Total Lead content in substrate material<sup>n</sup>**

Method: With reference to ASTM F963-17 Section 8.3.1, analyzed by Atomic Absorption Spectroscopy (AAS) or Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES).

Material No.	RL (mg/kg)	Limit(s) (mg/kg)	Result(s) (mg/kg)	Conclusion(s)
7+8+9	10	100	ND	PASS
10	10	100	ND	PASS
11	10	100	ND	PASS
13	10	100	13	PASS

**Test Result(s):**

**ASTM F963-17 Section 4.3.5.2 - Soluble Heavy Metals content in substrate material**

Method: With reference to ASTM F963-17 Section 8.3.2 to Section 8.3.5, analyzed by Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES).

Test Element(s)	Pb	Sb	As	Ba	Se	Cd	Hg	Cr	Conclusion(s)
RL (mg/kg)	5	5	2.5	5	5	5	2.5	2.5	
Limit(s) (mg/kg)	90	60	25	1000	500	75	60	60	
Material No.	Result(s) (mg/kg)								
7	ND	ND	4.6	ND	ND	ND	ND	ND	PASS
8	ND	ND	ND	ND	ND	ND	ND	ND	PASS
9	ND	ND	ND	ND	ND	ND	ND	ND	PASS
10	ND	ND	ND	ND	ND	ND	ND	ND	PASS
11	ND	ND	ND	13	ND	ND	ND	ND	PASS
13	ND	ND	ND	ND	ND	ND	ND	17.8	PASS

- Remark :**
1. mg/kg = milligram per kilogram(ppm).
  2. ND = Not Detected (< RL).
  3. RL = Report Limit.
  4. NA = Not Applicable.
  5. NR = Not Requested.
  6. “\*” = Per client’s requirement, the clause was not evaluated.
  7. As per client's request, only the appointed points and items have been tested.
  8. “+” = This data is obtained from composite testing on more than one materials, it is possible that result obtained from individual testing on any one of the materials is substantially higher. Please be cautious when using this data for compliance evaluation.
  9. “n” = The test item is not accredited by CNAS.The result/conclusion is for reference only.

**Test Material List**

Material No.	Description(s)	Location(s)
1	Cyan coating	Chain
2	Green coating	Chain
3	Pink coating	Chain
4	Blue coating	Chain
5	Silvery coating	Chain
6	Red coating	Chain
7	White plastic	Love substrate
8	Black plastic	Cup substrate

9	Green transparent plastic	Cup substrate
10	White plastic	Bead
11	Khaki paper with multicolor plastic	Label
12	Rose red coating	Chain
13	Silvery metal	Circle
14	Necklace series	Overall

Photo(s) of Sample(s):



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



## Report Remark

1. The company guarantees the scientificity, impartiality and accuracy, is responsible for test data, and keeps confidential for the samples and technical data provided.
2. The information of the samples submitted for inspection is provided by applicant, and the company is not responsible for its authenticity or integrity.
3. The results shown in this report refer only to the sample(s) submitted.
4. This report is invalid without signature of approver, is invalid if not affixed with Authorized Stamp of Test and Paging Seal. The data/results in reports without an CMA stamp ,all or part of items of this report are not in the accredited scope of CMA cannot be as domestic social impartiality proof data. It can only used for research and development, teaching, internal quality control, and only for internal reference.
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6. If there are any questions about the report, please contact us.
7. Any dispute of this report must be raised to the center within 10 workdays since the date of receipt, or it will not be accepted.
8. For samples with unstable performance, re-inspection will not be accepted.

### CONTACT US

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