



# Test Report

Report No.: PTC21032604001C-EN01

Issue Date: Apr.08, 2021

Page 1 of 8

**Applicant:** HGD Industry(ShenZhen) Co.,Ltd.

**Address:** Building C, No.161, Pinghu Street, Pinghu Community, Longgang District, Shenzhen City,  
Guangdong Province, China

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

**Sample Name:** EVA tablet case

**Sample Model:** A1133

**Age Group for Testing:** 2+

**Applicant's Specified  
Age Group for Testing:** 2+

**Colour:** Rose pink

**Manufacturer:** HGD Industry(ShenZhen) Co.,Ltd.

**Address:** Building C, No.161, Pinghu Street, Pinghu Community, Longgang District,  
Shenzhen City, Guangdong Province, China

**Sample Received Date:** Mar.30, 2021

**Completed Date:** Apr.06, 2021

**Test Requested and Conclusion(s):** Please refer to next page(s).

Signed for and on Behalf of PTC



Miya Ning / Technical Manager

Precise Testing & Certification (Guangdong) Co., Ltd.

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# Test Report

Report No.:PTC21032604001C-EN01

Issue Date:Apr.08, 2021

Page 2 of 8

## Test Requested and Conclusion(s):

No.	Test Sample	Standard and Requirement	Conclusion(s)
1	Submitted sample	ASTM F963-17 American Standard Consumer Safety Specification for Toy Safety - Mechanical and Physical Properties	PASS
2	Submitted sample	ASTM F963-17 American Standard Consumer Safety Specification for Toy Safety - Flammability	PASS
3	Submitted sample	ASTM F963-17 "Standard consumer safety specification for toy safety," Section 4.3.5.2. - Total Lead content in substrate material	PASS
4	Submitted sample	ASTM F963-17 "Standard consumer safety specification for toy safety," Section 4.3.5.2 - Soluble Heavy Metals content	PASS
5	Submitted sample	Consumer Product Safety Improvement Act of 2008(CPSIA),section 101 (a)(2) - Total Lead (Pb) in accessible substrate materials	PASS
6	Submitted sample	Consumer Product Safety Improvement Act of (CPSIA)and its amendment 16 CFR 1307 - Phthalates(DEHP, DBP, BBP, DINP, DIBP, DCHP,DPENP, DHEXP)	PASS
7	Submitted sample	Client's Requirement according to the Consent Decrees of California Proposition 65 - Total Lead (Pb)	PASS
8	Submitted sample	Client's Requirement according to the Consent Decrees of California Proposition 65 - Phthalates	PASS

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

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# Test Report

Report No.:PTC21032604001C-EN01

Issue Date:Apr.08, 2021

Page 3 of 8

## Test Result(s):

### 1) Mechanical and Physical Properties– ASTM F963-17

Section	Test Item	Assessment
4.1	Material quality	PASS
4.3.7	Stuffing Materials	NA
4.4	Electrical/Thermal Energy	NA
4.5	Sound-producing toys	NA
4.6	Small objects	
4.6.1	Toys intended for children under 36 months of age	PASS
4.6.2	Mouth actuated toys and inflatable toy	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	NA
4.13	Folding mechanisms and hinges	NA
4.14	Cords, straps, and elastic	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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# Test Report

Report No.:PTC21032604001C-EN01

Issue Date:Apr.08, 2021

Page 4 of 8

Section	Test Item	Assessment
4.28	Stroller and carriage toys	NA
4.29	Art materials (For label)	NA
4.30	Toy gun marking	NA
4.32	Certain toys with nearly spherical ends	NA
4.34	Balls	
4.34.1	Balls intended for children under 36 months of age	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 Requirements	NR*
6	Instructional Literature	NR*
7	Producer's marking	NR*

- Note:**
1. NA = Not Applicable
  2. NR = Not Requested
  3. "\*" = Per client's requirement, the packaging was not evaluated.

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 Items	FHSA	Parameter
Drop Test	Section 1500.53(b)	4 × 3.0 ft
Torque Test	Section 1500.53(e)	4.0 inch •lbf
Tension Test	Section 1500.53(f)	15 lbf
Compression Test	Section 1500.53(g)	30 lbf

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# Test Report

Report No.:PTC21032604001C-EN01

Issue Date:Apr.08, 2021

Page 5 of 8

## Test Result(s):

### 2) Flammability of Solids and Soft Toys – ASTM F963-17(A5)

Sample	Ignition Points	Burn Length (in.)	Burn Time (sec.)	Burn Rate(in./sec.)	Limit (in./sec.)
EVA pad protective cases	edge	1.8	60	0.03	0.1

**Note:** 1. DNI = Did Not Ignite

2. IBE = Ignited But Self-Extinguished before burn-rate could be determined.

All styles of submitted sample(s) (and its accessories) was/were tested, the above result only showed the most severe burn rate.

### 3) Total Lead content in substrate material - ASTM F963-17 Section 4.3.5.2

Method: ASTM F963-17 Section 8.3.1, was analyzed by flame atomic absorption spectrometry (AAS) or Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES).

Material No.	RL (mg/kg)	Limit (mg/kg)	Result (mg/kg)	Conclusion
1	10	100	N.D.	PASS

**Note:** 1. mg/kg = milligram per kilogram (ppm).

2. N.D. = Not Detected (< RL).

3. RL = Report Limit.

### 4) Soluble Heavy Metals content - ASTM F963-17 Section 4.3.5.2

Method: ASTM F963-17 Section 8.3.2 to Section 8.3.5, was analyzed by Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES).

Elements	Sb	As	Ba	Cd	Cr	Pb	Hg	Se	Conclusion
Limit (mg/kg)	60	25	1000	75	60	90	60	500	
RL (mg/kg)	5	2.5	5	5	5	5	5	5	
Material No.	Result (mg/kg)								
1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS

**Note:** 1. mg/kg = milligram per kilogram (ppm).

2. N.D. = Not Detected (< RL).

3. RL = Report Limit.

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# Test Report

Report No.: PTC21032604001C-EN01

Issue Date: Apr.08, 2021

Page 6 of 8

4. All the reported results are adjusted analytical results with the analytical correction shown in the following table.

Element	Sb	As	Ba	Cd	Cr	Pb	Hg	Se
Analytical correction (%)	60	60	30	30	30	30	50	60

- 5) The Lead content of accessible substrate materials - CPSIA

Method:

Nonmetal - CPSC-CH-E1002-08.3

Analyzed by Atomic Absorption Spectroscopy (AAS) or Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES).

Material No.	RL(mg/kg)	Limit (mg/kg)	Result (mg/kg)	Conclusion
1	10	100	N.D.	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
  2. N.D. = Not Detected (< RL).
  3. RL = Reporting Limit.

- 6) Phthalates

Method: CPSC-CH-C1001-09.4, analyzed by Gas Chromatograph-Mass Spectrometry (GC-MS).

Substance name	CAS No.	RL (mg/kg)	Limit (mg/kg)	Result (mg/kg)
				1
Di (2-ethylhexyl)phthalate (DEHP)	117-81-7	50	1000	N.D.
Dibutylphthalate (DBP)	84-74-2	50	1000	N.D.
Butylbenzylphthalate (BBP)	85-68-7	50	1000	N.D.
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	50	1000	N.D.
Diisobutylphthalate (DIBP)	84-69-5	50	1000	N.D.
Di-n-pentylphthalate (DPENP)	131-18-0	50	1000	N.D.
Dihexyl phthalate (DHEXP)	84-75-3	50	1000	N.D.
Dicyclohexyl phthalate (DCHP)	84-61-7	50	1000	N.D.
Conclusion				PASS

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# Test Report

Report No.: PTC21032604001C-EN01

Issue Date: Apr.08, 2021

Page 7 of 8

- Note:**
1. mg/kg = milligram per kilogram (ppm).
  2. N.D. = Not Detected (< RL).
  3. RL = Report Limit.
  4. 1000mg/kg = 0.1%

## 7) Total Lead Content

### Method:

Nonmetal - CPSC-CH-E1002-08.3, was analyzed by Atomic Absorption Spectroscopy (AAS) or Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES).

Material No.	RL (mg/kg)	Limit (mg/kg)	Result (mg/kg)	Conclusion
1	10	100	N.D.	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
  2. N.D. = Not Detected (< RL).
  3. RL = Reporting Limit.

## 8) Phthalates

**Method:** CPSC-CH-C1001-09.3, analyzed by Gas Chromatograph-Mass Spectrometry (GC-MS).

Substances	DBP	BBP	DEHP	DINP	DNHP	DIDP	Conclusion
CAS No.	84-74-2	85-68-7	117-81-7	28553-12-0 68515-48-0	84-75-3	26761-40-0 68515-49-1	
Limit (mg/kg)	1000	1000	1000	1000	1000	1000	
RL (mg/kg)	50	50	50	50	50	50	
Material No.	Result (mg/kg)						
1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
  2. N.D. = Not Detected (< RL).
  3. RL = Reporting Limit.

### Test Material List:

The following materials apply only to the samples submitted for testing

Material No.	Description	Location
1	Fuchsia EVA	Body

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Issue Date:Apr.08, 2021

Page 8 of 8

Photo of Sample:



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

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