

Test Report

Report No.: SZT09042808282

Page 1 of 9

Client : CSP INC
Address : PO BOX 1157 GLENDALE AZ. 85311

Report on the submitted sample said to be:

Sample Name : Lanyard
Item No. : K04-813
Buyer : Kids' Korner
Quantity of Sample : 3 pcs
Country of Origin : Others
Exported to : U.S.A
Client Specified Age Grading : Over 3 years
Labelled Age Grading : Not stated
Age Group Applied in Testing : Over 3 years
Sample Received Date : May.15, 2009
Resubmitted Sample Date : Jun.08, 2009
Sample Tested Date : May.15, 2009 to Jun. 10, 2009

TEST REQUEST

- 1)ASTM F963-08 Standard Consumer Safety Specification for Toy Safety
- 2)US Consumer Products Safety Improvement Act 2008 (CPSIA)
- Lead in surface-coatings and similar materials of children's product
- Lead in substrate materials of children's product
- Phthalates in children's toys and child care articles

CONCLUSION

PASS

PASS
PASS
PASS

Test Results: Please refer to next page(s)

Inspected by: Maggie
Engineer

Approved by: Victor wang
Lab Manager

Approved date: 2009-06-12



Building C, Hongwei Industrial Zone, Baoan 70 District, Shenzhen

Test Report

Report No.: SZT09042808282

Page 2 of 9

1) ASTM F963 –08

AS SPECIFIED IN ASTM F963-08 STANDARD CONSUMER SAFETY SPECIFICATION FOR TOY SAFETY.

<u>Clause</u>	<u>Description</u>	<u>Assessment</u>
4.	Safety Requirements	
4.1	Material Quality (Visual Examination).....	Pass
4.2	Flammability Test.....	Pass (See Note 1)
4.3	Toxicology	
4.3.5	Paint & Similar Surface-coating Material.....	Pass (See Note 2)
4.6	Small Objects.....	N/A
4.7	Accessible Edges.....	Pass
4.9	Accessible Points.....	Pass
7.	Producers Markings	
7.1	Producers Markings.....	Pass
8.	Test Method	
8.5	Normal Use Testing.....	Pass
8.7	Impact Test	Pass
8.8	Torque Test.....	Pass
8.9	Tension Test.....	Pass

N/A = Not Applicable

Note 1:

Flammability Test (Clause 4.2)

Flammability Test on Solid

<u>Sample</u>	<u>Burning Rate (inch/sec)</u>	<u>Limit (inch/sec)</u>
Lanyard	0.03	0.1

Building C, Hongwei Industrial Zone, Baoan 70 District, Shenzhen

Test Report

Report No.: SZT09042808282

Page 3 of 9

Note 2 :

ASTM F963-08 CLAUSE 4.3.5 - PAINT & SIMILAR SURFACE-COATING MATERIAL

Heavy Metals Analysis : Total Lead (Clause 4.3.5.1)

Acid Digestion Method was Used and Total Lead Content was Determined by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

<u>Element</u>	<u>Result(mg/kg)</u>									<u>Limit</u> (mg/kg)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
Total Lead	< 5	< 5	19	< 5	14	20	< 5	< 5	< 5	600

Tested Components:

- (1) Yellow coating with red coating(black rope)
- (2) White coating (blue rope)
- (3) White coating with red coating (blue rope)
- (4) Multi-color coating (bear, pink rope)
- (5) Blue coating with white coating(letter ,pink rope)
- (6) Red coating with white coating(letter ,pink rope)
- (7) Green coating with white coating(letter ,pink rope)
- (8) Brown-red coating with white coating(letter ,pink rope)
- (9) Yellow coating with white coating(letter ,pink rope)

Heavy Metals Analysis : Soluble Heavy Metal (Clause 4.3.5.2)

Acid Extraction Method was Used in accord with ASTM F963-08 (Clause 8.3) and Toxic Elements Content were Determined by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

<u>Elements</u>	<u>Result (mg/kg)</u>									<u>Limit</u> (mg/kg)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
Soluble Antimony (Sb)	<5	<5	<5	<5	<5	<5	<5	<5	<5	60
Soluble Arsenic (As)	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	25
Soluble Barium (Ba)	133	277	266	321	78	324	329	290	329	1000
Soluble Cadmium (Cd)	<5	<5	<5	<5	<5	<5	<5	<5	<5	75
Soluble Chromium (Cr)	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	60
Soluble Lead (Pb)	<5	<5	<5	<5	<5	<5	<5	<5	<5	90
Soluble Mercury (Hg)	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	60
Soluble Selenium (Se)	<5	<5	<5	<5	<5	<5	<5	<5	<5	500

Building C, Hongwei Industrial Zone, Baoan 70 District, Shenzhen

Test Report

Report No.: SZT09042808282

Page 4 of 9

Tested Components:

- (1) Yellow coating with red coating(black rope)
- (2) White coating (blue rope)
- (3) White coating with red coating (blue rope)
- (4) Multi-color coating (bear, pink rope)
- (5) Blue coating with white coating(letter ,pink rope)
- (6) Red coating with white coating(letter ,pink rope)(Sample weight:77.8mg)
- (7) Green coating with white coating(letter ,pink rope)
- (8) Brown-red coating with white coating(letter ,pink rope)(Sample weight:83.6mg)
- (9) Yellow coating with white coating(letter ,pink rope)(Sample weight:26.0mg)

Remark:

- \leq = Less than
- mg/kg = Milligram per kilogram based on dry weight of sample
- Results shown of soluble elements are of adjusted analytical results by subtracting analytical correction factor
- Where the test portion has a mass of between 10mg and 100mg, the quantity of the appropriate elements shall be calculated as if 100mg of the test portion had been used.

Note:

- Only applicable clauses were shown.

Building C, Hongwei Industrial Zone, Baoan 70 District, Shenzhen

Test Report

Report No.: SZT09042808282

Page 5 of 9

2) US CONSUMER PRODUCTS SAFETY IMPROVEMENT ACT 2008 (CPSIA)

▼ LEAD IN SURFACE-COATING AND SIMILAR MATERIALS OF CHILDREN'S PRODUCT

As Specified in Consumer Products Safety Improvement Act 2008 (CPSIA) and Title 16 Part 1303 Code of Federal Regulations, Chapter II – Consumer Products Safety Commission of U.S.A, Acid Digestion Method was Used and Total Lead Content was Determined by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

<u>Element</u>	<u>Result (ppm)</u>									<u>Limit^{#1}</u> (ppm)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
Total Lead (Pb)	<5	<5	19	<5	14	20	<5	<5	<5	600

Tested Components:

- (1) Yellow coating with red coating(black rope)
- (2) White coating (blue rope)
- (3) White coating with red coating (blue rope)
- (4) Multi-color coating (bear, pink rope)
- (5) Blue coating with white coating(letter ,pink rope)
- (6) Red coating with white coating(letter ,pink rope)
- (7) Green coating with white coating(letter ,pink rope)
- (8) Brown-red coating with white coating(letter ,pink rope)
- (9) Yellow coating with white coating(letter ,pink rope)

Remark:

- < = Less than
- ppm= parts per million based on dry weight of sample
- ^{#1} = The total Lead limit for surface coatings and similar materials will be **90ppm** (Effective Date : August 14, 2009)

Building C, Hongwei Industrial Zone, Baoan 70 District, Shenzhen

Test Report

Report No.: SZT09042808282

Page 6 of 9

▼ LEAD IN SUBSTRATE MATERIALS OF CHILDREN'S PRODUCT

As Specified in Consumer Products Safety Improvement Act 2008 (CPSIA), Acid Digestion Method was Used and Total Lead Content was Determined by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Element	Result (ppm)							Limit #2 (ppm)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	
Total Lead (Pb)	<5	<5	<5	<5	<5	<5	22	600

Tested Components:

- (1) Black fabric(black rope)
- (2) Black thread(black rope)
- (3) Pink fabric(pink rope)
- (4) Pink thread(pink rope)
- (5) Blue fabric(blue rope)
- (6) Blue thread(blue rope)
- (7) Black plastic(buckle)

Remark:

- < = Less than
- ppm= parts per million based on dry weight of sample
- #2= The total Lead limit for substrate materials will be **300ppm** (Effective Date : August 14, 2009)

▼ PHTHALATES IN CHILDREN'S TOY AND CHILD CARE ARTICLES

As Specified in Consumer Products Safety Improvement Act 2008 (CPSIA) ,Solvent extraction Method was Used and phthalates were Determined by Gas Chromatograph with Mass Spectrometer (GC-MS).

Material(s) in toys and childcare articles				
Tested Item	Result (%)			Limit (%)
	(1)	(2)	(3)	
Di-2-ethylhexyl Phthalate (DEHP)	0.029	<0.003	<0.003	0.1
Dibutyl Phthalate (DBP)	<0.003	<0.003	<0.003	0.1
Benzylbutyl Phthalate (BBP)	<0.003	<0.003	<0.003	0.1

Building C, Hongwei Industrial Zone, Baoan 70 District, Shenzhen

Test Report

Report No.: SZT09042808282

Page 7 of 9

Material(s) in toys and childcare articles					
<u>Tested Item</u>	<u>Result (%)</u>				<u>Limit (%)</u>
	(4)	(5)	(6)	(7)	
Di-2-ethylhexyl Phthalate (DEHP)	0.017	<0.003	<0.003	<0.003	0.1
Dibutyl Phthalate (DBP)	<0.003	<0.003	<0.003	<0.003	0.1
Benzylbutyl Phthalate (BBP)	<0.003	<0.003	<0.003	<0.003	0.1

Material(s) in toys and childcare articles				
<u>Tested Item</u>	<u>Result (%)</u>			<u>Limit (%)</u>
	(8)	(9)	(10)	
Di-2-ethylhexyl Phthalate (DEHP)	<0.003	<0.003	<0.003	0.1
Dibutyl Phthalate (DBP)	<0.003	<0.003	<0.003	0.1
Benzylbutyl Phthalate (BBP)	<0.003	<0.003	<0.003	0.1

Material(s) in toys that can be placed in mouth and childcare articles					
<u>Tested Item</u>	<u>Result (%)</u>				<u>Limit (%)</u>
	(1)	(2)	(3)	(4)	
Diisononyl Phthalate (DINP)	<0.032	<0.005	<0.005	0.055	0.1
Di-n-octyl Phthalate (DNOP)	<0.003	<0.003	<0.003	<0.003	0.1
Diisodecyl Phthalate (DIDP)	<0.005	<0.005	<0.005	<0.005	0.1

Material(s) in toys that can be placed in mouth and childcare articles				
<u>Tested Item</u>	<u>Result (%)</u>			<u>Limit (%)</u>
	(5)	(6)	(7)	
Diisononyl Phthalate (DINP)	0.085	0.063	0.084	0.1
Di-n-octyl Phthalate (DNOP)	<0.003	<0.003	<0.003	0.1
Diisodecyl Phthalate (DIDP)	<0.005	<0.005	<0.005	0.1

Building C, Hongwei Industrial Zone, Baoan 70 District, Shenzhen

Test Report

Report No.: SZT09042808282

Page 8 of 9

Material(s) in toys that can be placed in mouth and childcare articles				
<u>Tested Item</u>	<u>Result (%)</u>			<u>Limit (%)</u>
	(8)	(9)	(10)	
Diisononyl Phthalate (DINP)	0.083	0.070	0.066	0.1
Di-n-octyl Phthalate (DNOP)	<0.003	<0.003	<0.003	0.1
Diisodecyl Phthalate (DIDP)	<0.005	<0.005	<0.005	0.1

Tested Components:

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- (2) White coating (blue rope)
- (3) White coating with red coating (blue rope)
- (4) Multi-color coating (bear, pink rope)
- (5) Blue coating with white coating(letter ,pink rope)
- (6) Red coating with white coating(letter ,pink rope)
- (7) Green coating with white coating(letter ,pink rope)
- (8) Brown-red coating with white coating(letter ,pink rope)
- (9) Yellow coating with white coating(letter ,pink rope)
- (10) Black plastic(buckle)

Remark:

- < = Less than
- % = Percentage based on dry weight of sample

Building C, Hongwei Industrial Zone, Baoan 70 District, Shenzhen

Test Report

Report No.: SZT09042808282

Page 9 of 9

Photo of the sample



*** End of report ***

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Building C, Hongwei Industrial Zone, Baoan 70 District, Shenzhen