

Test Report

Report No.: SZT09042808267

Page 1 of 7

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

Report on the submitted sample said to be:

Sample Name : Mylar Windmills
Item No. : K01-902
Buyer : Kids' Korner
Country of Origin : China
Exported to : U.S.A
Client Specified Age Grading : 3+
Labelled Age Grading : Not stated
Age Group Applied in Testing : All ages
Sample Received Date : Apr.28, 2009
Resubmitted Sample Date : May.18, 2009
Further Information Date : May.20, 2009
Sample Tested Date : Apr.28, 2009 to May.22, 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^{#01}

Test Results: Please refer to next page(s)

Inspected by: Maggie , Approved by: Victor wang , Approved date: 2009-05-22
Engineer Victor wang
Lab Manager



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

Test Report

Report No.: SZT09042808267

Page 2 of 7

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 **.....	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.....	Pass
4.7	Accessible Edges.....	Pass
4.9	Accessible Points.....	Pass
4.18	Holes, Clearance & Accessibility of Mechanisms.....	Pass
5.	Safety Labeling Requirements	
5.3	Safety Labeling Requirements.....	Pass
5.11	Small Objects, Small Balls, Marbles, and Balloons.....	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

**Visual Examination

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>
Mylar Windmills	0.1*	0.1

*When not age labeled, products were subjected to the most stringent abuse test conditioning.

Test Report

Report No.: SZT09042808267

Page 3 of 7

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).

Element	Result(mg/kg)					Limit (mg/kg)
	(1)	(2)	(3)	(4)	(5)	
Total Lead	19	69	22	< 5	< 5	600

Tested Components:

- (1) Blue coating
- (2) Green coating
- (3) Golden coating
- (4) Purple coating
- (5) Red coating

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).

Elements	Result (mg/kg)					Limit (mg/kg)
	(1)	(2)	(3)	(4)	(5)	
Soluble Antimony (Sb)	<5	<5	<5	<5	<5	60
Soluble Arsenic (As)	<2.5	<2.5	<2.5	<2.5	<2.5	25
Soluble Barium (Ba)	10	5	<5	<5	<5	1000
Soluble Cadmium (Cd)	<5	<5	<5	<5	<5	75
Soluble Chromium (Cr)	<2.5	<2.5	<2.5	<2.5	<2.5	60
Soluble Lead (Pb)	<5	<5	<5	<5	<5	90
Soluble Mercury (Hg)	<2.5	<2.5	<2.5	<2.5	<2.5	60
Soluble Selenium (Se)	<5	<5	<5	<5	<5	500

Tested Components:

- (1) Blue coating(sample weight=27.0mg)
- (2) Green coating(sample weight=29.0mg)
- (3) Golden coating(sample weight=42.0mg)
- (4) Purple coating(sample weight=41.0mg)
- (5) Red coating(sample weight=37.0mg)

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

Test Report

Report No.: SZT09042808267

Page 4 of 7

Remark:

- < = 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.

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).

Element	Result (ppm)					Limit ^{#1}
	(1)	(2)	(3)	(4)	(5)	(ppm)
Total Lead	19	69	22	<5	<5	600

Tested Components:

- (1) Blue coating
- (2) Green coating
- (3) Golden coating
- (4) Purple coating
- (5) Red coating

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.: SZT09042808267

Page 5 of 7

▼ 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).

<u>Element</u>	<u>Result (ppm)</u>					<u>Limit #2</u> (ppm)
	(1)	(2)	(3)	(4)	(5)	
Total Lead	39	123	<5	<5	<5	600

Tested Components:

- | | |
|-----------------------|--------------------|
| (1) Dk.red plastic | (4) Yellow plastic |
| (2) Dk.yellow plastic | (5) Green plastic |
| (3) Mauve plastic | |

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					
<u>Tested Item</u>	<u>Result (%)</u>				<u>Limit#</u> (%)
	(1)/(2)/(3)	(4)/(5)	(6)/(7)/(8)	(9)/(10)	
Di-2-ethylhexyl Phthalate (DEHP)	<0.003	<0.003	0.009	<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

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

Test Report

Report No.: SZT09042808267

Page 6 of 7

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)/(5)	(6)/(7)/(8)	(9)/(10)	(%)
Diisononyl Phthalate (DINP)	<0.005	<0.005	<0.005	<0.005	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

Tested Components:

- (1) Blue coating
- (2) Green coating
- (3) Golden coating
- (4) Purple coating
- (5) Red coating
- (6) Dk.red plastic
- (7) Dk.yellow plastic
- (8) Mauve plastic
- (9) Yellow plastic
- (10) Green plastic

Remark:

- < = Less than
- % = Percentage based on dry weight of sample
- # = The limit for the test result is 1/n of the value column (where “ n” is the number of mixed samples)
- #01 : CTI conducted phthalates on the components which were identified by the client, and the testing results can meet CPSIA requirement

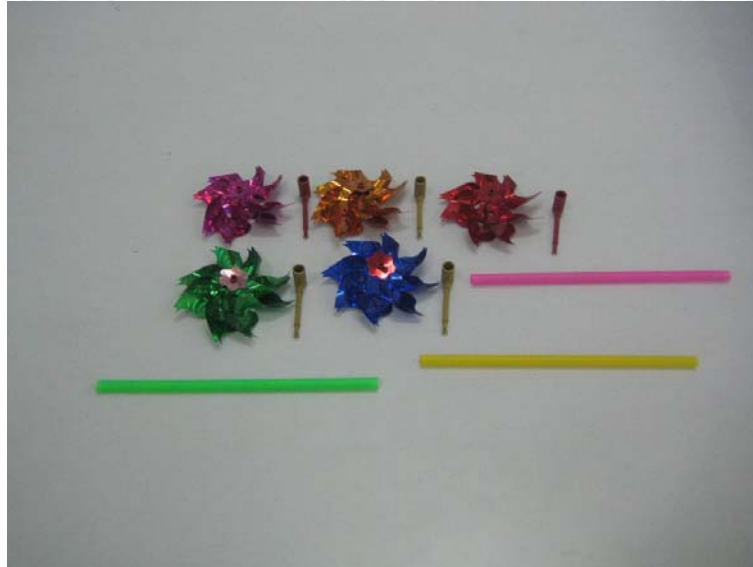
Building C, Hongwei Industrial Zone, Baoan 70 District, Shenzhen

Test Report

Report No.: SZT09042808267

Page 7 of 7

Photo of the sample



*** End of report ***

This report is considered invalidated without the Special Seal for Inspection of the CTI, This report shall not be altered, increased or deleted. The results shown in this test report refer only to the sample(s) tested. Without written approval of CTI, this test report shall not be copied except in full and published as advertisement.

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