

Test Report

No.: SZTYR090101546/TS

Date: FEB 05, 2009

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PCI EDUCATIONAL PUBLISHING
P.O. BOX 34270 SAN ANTONIO, TX 78265-4270 USA

The following samples were submitted and identified by/on behalf of the client as:

Name of Product/Item : VIEWER / 阅读器, TRAY / 咕托收缩套装

Details of Sample Received : 3 PLASTIC ACCESSORIES. POLYBAG PACKED.

Sample Quantity : 2 PCS
 Style / Item No. : PCI2500 / BGM-21030-127, PCI2500 / BGM-21030-128
 Docno : DSP003568
 Buyer : P168--PCI
 Country of Destination : USA
 Labeled Age Grading : NOT STATED
 Requested Age Grading : OVER 3 YEARS
 Age Group Applied in Testing : OVER 3 YEARS
 Sample Receiving Date : JAN 23, 2009
 Testing Period : JAN 23, 2009 TO FEB 05, 2009


Test Requested

- | | <u>Result</u> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| 1) For compliance with the test requirement of ASTM F963-07 ^{e1} Standard Consumer Safety Specification on Toy Safety. | <u>Pass</u>
<u>(Except Clause 7.1)</u> |
| 2) For compliance with lead in accessible substrate materials and phthalates content in US Public Law 110-314 (Consumer Product Safety Improvement Act of 2008). | |
| Lead in accessible substrate materials | <u>Pass</u> |
| Phthalates | <u>Pass</u> |
| 3) Determination of specified phthalates contents in the submitted samples in accordance with Directive 2005/84/EC. | <u>Pass</u> |
| 4) Determination of Total Lead, Cadmium, Mercury and Hexavalent Chromium content in the submitted samples in accordance with the requirement of US CONEG Model Toxics in Packaging Legislation, and European Council Directive 94/62/EC – Article 11 that effective June 2001 and its amendment 2005/20/EC. | <u>Pass</u> |

Signed for and on behalf of
SGS-CSTC Ltd.



Zhang Wei, Merry
Section Manager



Zhou Yongwei, Leo
Supervisor

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1) ASTM F963 - 07 ^{ε1}

AS SPECIFIED IN ASTM F963-07 ^{ε1} STANDARD CONSUMER SAFETY SPECIFICATION ON TOYS SAFETY.

<u>Clause</u>	<u>Description</u>	<u>Result</u>
4.	<u>Safety Requirements</u>	
4.1	Material Quality **	<u>Pass</u>
4.2	Flammability Test.....	<u>Pass</u> <u>(See Note)</u>
4.3	Toxicology	
4.3.5	Paint & Similar Surface-coating Material.....	<u>N/A</u>
4.7	Accessible Edges.....	<u>Pass</u>
4.9	Accessible Points.....	<u>Pass</u>
4.12	Packaging Film.....	<u>Pass</u>
7.	<u>Producer's Markings</u>	
7.1	Producer's Markings.....	<u>See Remark</u>
8.	<u>Test Method</u>	
8.5	Normal Use Testing.....	<u>Pass</u>
8.7	Impact Test.....	<u>Pass</u>
8.8	Torque Test.....	<u>Pass</u>
8.9	Tension Test.....	<u>Pass</u>
8.10	Compression Test.....	<u>Pass</u>

Remark : It is drawn to your attention that either a principal component of a toy or the package of a toy shall be marked with the name and address of the producer or the distributor.

**Visual Examination

N/A = Not Applicable

Note :

Flammability Test (Clause 4.2)
Flammability Test on Solid

<u>Sample</u>	<u>Burning Rate (inch/sec)</u>	<u>Limit (inch/sec)</u>
VIEWER / 阅读器 , TRAY / 咕托收缩套装	0.04	0.1

N.B. : - Only applicable clauses were shown.

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2) US Public Law 110-314 (Consumer Product Safety Improvement Act of 2008).

Lead in accessible substrate materials

Method: Acid digestion followed by Inductively Coupled Argon Plasma – Atomic Emission Spectrometry Analysis.

Test item	1	2	Permissible Limit ^{##}
Lead (Pb)	ND	ND	0.03 %
Comment	PASS	PASS	---

^{##} Comment is based on the 0.03 % limit requirement, effective 14 August, 2009. The requirements for lead in substrate in children's products is summarized below

Scope	Requirement	Effective date
Lead in substrate other than paint / similar surface coating material	≤ 0.06 %	10 February 2009
	≤ 0.03 %	14 August 2009
	≤ 0.01%	14 August 2011

Sample Description :

1. Black plastics (Tray)
2. Black plastics (Viewer)

Note : 1. % = percentage by weight
 2. ND = not detected
 3. Method Detection Limit = 0.002%

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Phthalates

Method: With reference to ASTM D3421-75. Analysis was performed by Gas Chromatography / Mass Spectrometry.

Toys and childcare articles

Test item	Black plastics (Tray) + Black plastics (Viewer)	Permissible Limit
Dibutyl Phthalate (DBP)	ND	0.1%
Benzylbutyl Phthalate (BBP)	ND	0.1%
Bis-(2-ethylhexyl) Phthalate (DEHP)	ND	0.1%
Comment	PASS	---

Toys that can be placed in the mouth and childcare articles

Test item	Black plastics (Tray) + Black plastics (Viewer)	Permissible Limit
Diisononyl Phthalate (DINP)	ND	0.1%
Di-n-octyl Phthalate (DNOP)	ND	0.1%
Diisodecyl Phthalate (DIDP)	ND	0.1%
Comment	PASS	---

- Note :
1. % = percentage by weight
 2. ND = not detected
 3. Method Detection Limit for each of DBP, BBP, DEHP and DNOP = 0.003%
 4. Method Detection Limit for each of DINP and DIDP = 0.01%
 5. Effective Date = 10 February 2009

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3) Directive 2005/84/EC

The specimen is extracted by solvent and followed analysis by Gas Chromatography / Mass Spectrometry

Test items		Black plastics (Tray) + Black plastics (Viewer)	Detection Limit
Dibutyl phthalate	(DBP)	N.D.	0.003%
Benzyl butyl phthalate	(BBP)	N.D.	0.003%
Bis-(2-ethylhexyl) phthalate	(DEHP)	N.D.	0.003%
Di-"isononyl" phthalate	(DINP)	N.D.	0.010%
Di-n-octyl phthalate	(DNOP)	N.D.	0.003%
Di-"isodecyl" phthalate	(DIDP)	N.D.	0.010%
Total (DBP+BBP+DEHP)		N.D.	--
Total (DINP+DNOP+DIDP)		N.D.	--

- Note :
- N.D. = Not Detected (lower than Detection Limit)
 - % = percentage by weight
 - The results shown as N.D. (Not Detected) are ignored in the sum calculation.

Remark: Summary of upper limits of requirements:

Requirements	Upper Limit
Directive 2005/84/EC	
- For all toys and childcare articles	- Total (DBP +BBP+ DEHP) < 0.1%
- For toys and childcare articles that can be placed in the mouth	- Total (DINP+DNOP+DIDP) < 0.1%

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4) US CONEG Model Toxics in Packaging Legislation and European Council Directive 94/62/EC

Wet acid digestion and EPA3060 (Hexavalent Chromium [Cr (VI)])

Analysis was performed by Atomic Absorption Spectrometer, Inductively Coupled Plasma Atomic Emission Spectrometer and UV-VIS Spectrophotometer.

Specimen Description	Pb (ppm)	Cd (ppm)	Hg (ppm)	Cr (VI) (ppm)	Total [Pb + Cd + Cr (VI) + Hg] (ppm)	Total Limit (ppm)
1. Black plastics (Tray)	< 2	< 2	< 2	< 2	< 8	100
2. Black plastics (Viewer)	< 2	< 2	< 2	< 2	< 8	100
3. Transparent plastic film (Protect film)	< 2	< 2	< 2	< 2	< 8	100
4. Black printed transparent plastic sheet (Bag)	< 2	< 2	< 2	< 2	< 8	100

Note: - < = Less than

- The unit of results is mg per kg

- Results shown are of total weight of dry samples

Remark: The limit is set in the CONEG Model Toxics in packaging legislation by the following states: Connecticut, Florida, Georgia, Illinois, Iowa, Maine, Maryland, Minnesota, Missouri, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, Virginia, Washington and Wisconsin.

Sample Photo:



SGS authenticate the photo on original report only

*** End of Report ***

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