



# Test Report

No.: SZTY1108041344LP-01

Date: AUG 17, 2011

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LEO PAPER BAGS MANUFACTURING (1982) LTD.  
LEVEL 36, TOWER 1, ENTERPRISE SQUARE FIVE (MEGABOX),  
38 WANG CHIU ROAD, KOWLOON BY, KOWLOON

**This test report is to supersede test report number SZTY1108041344LP.**

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

Name of Product/Item : ZOEK DE VERSCHILEN / SUCHE DIE UNTERSCHIEDE / CHERCHEZ LES DIFERENCES

Country of Destination : EUROPE

Request Age Grading : 3+ YEARS

Sample Receiving Date : AUG 04, 2011

Testing Period : AUG 04, 2011 TO AUG 10, 2011

Test Requested	Result
1) Determination of the Cadmium content in the submitted samples in accordance with Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 91/338/EEC).	PASS
2) Determination of specified phthalates contents in the submitted composite samples in accordance with Entries 51 and 52 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC).	PASS

\*\*\*\*\* For Further Details, Please Refer to the Following Page(s) \*\*\*\*\*

Signed for and on behalf of  
SGS-CSTC Ltd.

Ouyang Qin, Cansy  
Section Head

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SGS-CSTC Standards Technical Services Co., Ltd.  
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Member of the SGS Group (SGS SA)

**Results:**

**1) REACH Cadmium**

Method: With reference to EN1122: 2001 method B / EPA 3052: 1996.

Analysis was performed by Atomic Absorption Spectrometer and Inductively Coupled Plasma Atomic Emission Spectrometer.

Specimen Description	Alias No.	Tracing No.	Cd Result (mg/kg)	Limit (mg/kg)
1. Black plastics (Pointer)	1	1	ND	100
2. Black plastics (Fastener)	1	2	ND	100
3. White surfaced grey paper board (Watch)	1	3	ND	100
4. White paper (Card)	1	4	ND	100
5. Transparent plastics (Sandglass)	1	5	ND	100
6. Black felt	1	6	ND	100
7. Black plastics (Pen)	1	7	ND	100
8. White plastics (Pen)	1	8	ND	100
9. White fiber	1	9	ND	100
10. Red plastics (Sandglass)	1	10	ND	100
11. Matt-black plastics (Sandglass)	1	11	ND	100
12. White foam (Washer)	1	12	ND	100
13. Multi-color coating on paper board (Watch)	2	1	ND	100
14. Multi-color coating on paper (Card)	2	2	ND	100
15. Black ink	2	3	ND	100

- Note :
- ND = Not Detected (< 5mg/kg)
  - 10000 mg/kg = 1%
  - Result(s) shown is(are) calculated based on the weight of wet status for specimen No. 15

Remark: According to Commission Regulation (EU) No 494/2011 amending Annex XVII of REACH Regulation (EC) No 1907/2006, the Cadmium requirement as shown in the below table will be effective from 10 Dec 2011.

Scope	Requirement (mg/kg)	Effective date
Substrate: Plastic, metal, brazing filler	100	10 December 2011
Surface coating / paint on article	1000	10 December 2011
Paint	ND	10 December 2011

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**2) Regulation (EC) No. 1907/2006 (REACH), Annex XVII – Phthalates Content**

Method: With reference to CPSC-CH-C1001-09.3

Analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS)

For toys and childcare articles that can be placed in the mouth

Test Item(s)		1	2	3	MDL
Alias No.		3	3	3	--
Tracing No.		1	2	3	--
Dibutyl phthalate	(DBP)	ND	ND	ND	0.003%
Benzyl butyl phthalate	(BBP)	ND	ND	ND	0.003%
Bis-(2-ethylhexyl) phthalate	(DEHP)	ND	ND	ND	0.003%
Di-"isononyl" phthalate	(DINP)	ND	ND	ND	0.010%
Di-n-octyl phthalate	(DNOP)	ND	ND	ND	0.003%
Di-"isodecyl" phthalate	(DIDP)	ND	ND	ND	0.010%
Total (DBP+BBP+DEHP)		ND	ND	ND	--
Total (DINP+DNOP+DIDP)		ND	ND	ND	--
Conclusion (for EU requirement)		Pass	Pass	Pass	--

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Test Item(s)		4	5	6	MDL
Alias No.		3	3	3	--
Tracing No.		4	5	6	--
Dibutyl phthalate	(DBP)	ND	ND	ND	0.003%
Benzyl butyl phthalate	(BBP)	ND	ND	ND	0.003%
Bis-(2-ethylhexyl) phthalate	(DEHP)	ND	ND	ND	0.003%
Di-"isononyl" phthalate	(DINP)	ND	ND	ND	0.010%
Di-n-octyl phthalate	(DNOP)	ND	ND	ND	0.003%
Di-"isodecyl" phthalate	(DIDP)	ND	ND	ND	0.010%
Total (DBP+BBP+DEHP)		ND	ND	ND	--
Total (DINP+DNOP+DIDP)		ND	ND	ND	--
Conclusion (for EU requirement)		Pass	Pass	Pass	--

**Specimen Description:**

1. Black plastics (Pointer) + Black plastics (Fastener) + Black plastics (Pen)
2. White plastics (Pen) + Red plastics (Sandglass)
3. Transparent plastics (Sandglass) + Matt-black plastics (Sandglass)
4. Multi-color coating on paper board (Watch)
5. Multi-color coating on paper (Card)
6. Black ink

- Note:
- ND = Not Detected (lower than MDL)
  - MDL = Method Detection Limit
  - % = percentage by weight
  - Results shown as ND are ignored in the sum calculation
  - Result(s) shown is(are) calculated based on the weight of wet status for specimen No. 6
  - Composite test has been performed as per client's request and the result(s) is (are) calculated using the total specimen weight

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For all toys and childcare articles

Test Item(s)		1	MDL
Alias No.		4	--
Tracing No.		1	--
Dibutyl phthalate	(DBP)	ND	0.003%
Benzyl butyl phthalate	(BBP)	ND	0.003%
Bis-(2-ethylhexyl) phthalate	(DEHP)	0.005%	0.003%
Total (DBP+BBP+DEHP)		Minimum 0.005%	--
Conclusion (for EU requirement)		Pass	--

### Specimen Description:

1. White foam (Washer)

- Note:
- ND = Not Detected (lower than MDL)
  - MDL = Method Detection Limit
  - % = percentage by weight
  - Results shown as ND are ignored in the sum calculation

### Summary of upper limits of requirements:

Requirements	Permissible Limit
<b>Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006</b>	
- 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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### Sample Photo:



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