



TEST REPORT

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Date: 11-Aug-2015
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Client Name:	Twoodie Pbc		
Client Address:	Twoodie Pbc, 12 Tacoma Street, Park Orchards, 3114, Victoria, Australia		
Item Name:	Velvet bag with ribbon and embossed logo. This bag is part of the baby toy packaging		
UPC/Style/Item #:	Twoodie Bag 1	Supplier/Manufacturer:	Wuxi Longde Packing Craft Co., Ltd
Sample Size:	2pcs	Country of Origin:	China
Buyer/Customer:	Jeanne Bardin, Twoodie Pbc	Export Market(s):	London, UK
Receiving Date:	4-Aug-2015	Test Period:	4-Aug-2015 - 11-Aug-2015
Age Label:	-	Testing Age Grade:	0+
Add Information:	-		

Report Summary

#	Test	Reference Standard/Method	Result
1	Toy Safety: Mechanical and Physical Properties	EN71-1:2011+A3:2014 (exclude clause 6;7)	PASS
2	Toy Safety: Flammability	EN71-2:2011+A1:2014	PASS
3	Migration of Certain Elements EN 71-3 :2013+A1:2014	EN 71-3:2013+A1:2014	PASS
4	Heavy Metals Content in Packaging Material European Parliament and Council Directive 94/62/EC	Cadmium, Lead, Mercury and Total Chromium referring to EPA 3052-1996, determined by Inductively Coupled Plasma – Atomic Emission Spectrometry(ICP-AES). Chromium(VI) referring to EPA 3060A-1996 + EPA 7196A-1992, determined by spectrophotometer	PASS
5	Azo Colourants -Textile European Regulation (EC) No. 1907/2006 REACH Annex XVII, Entry No. 43	EN 14362-1:2012 & EN 14362-3:2012, solvent extract and determined by GC/MS and HPLC	PASS

Signed for and on behalf of STS

Harry Tian
(Manager – Testing)

Signed for and on behalf of STS

Mandy Liu
(Chemical Test Manager)



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1. Toy Safety: Mechanical and Physical Properties – EN71-1:2011+A3:2014 PASS

Table 1.1

	Test Clauses	Results
4	General requirements	-
4.1	Material cleanliness	Pass
4.4	Toy Bags	Pass
4.7	Edges	Pass
4.8	Points and metallic wires	Pass
5	Toys intended for children under 36 months	-
5.1	General requirements	Pass
5.4	Cords, chains and electrically cables in toys	Pass
6	Packaging	See remark
7	Warnings, markings and instructions for use	See remark
7.1	General	See remark

Remark: The clause was not tested as no package was provided.

2. Toy Safety: Flammability – EN71-2:2011+A1:2014 PASS

Table 2.1

	Test Clauses	Results
4.1	General	Pass



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3. Migration of Certain Elements

PASS

Referring to EN 71-3:2013+A1:2014
General elements determined by ICP-MS
Chromium(VI) determined by IC-ICP-MS
Organic tin determined by GC-MS

Table 3.1

Compound	Material #1 Category III ^{*1}	Material #2 Category III ^{*1}	Limit (mg/kg)	RL (mg/kg)
1	Aluminum (Al)	N.D.	70000	300
2	Antimony (Sb)	N.D.	560	10
3	Arsenic(As)	N.D.	47	5
4	Barium(Ba)	N.D.	18750	50
5	Boron (B)	N.D.	15000	50
6	Cadmium (Cd)	N.D.	17	5
7	Chromium (III) (Cr)	0.21 ^{*2}	460	0.2
8	Chromium (VI) (Cr)	N.D.	0.2	0.1
9	Cobalt (Co)	N.D.	130	10
10	Copper (Cu)	N.D.	7700	10
11	Lead(Pb)	N.D.	160	10
12	Manganese (Mn)	N.D.	15000	10
13	Mercury (Hg)	N.D.	94	10
14	Nickel (Ni)	N.D.	930	10
15	Selenium(Se)	N.D.	460	10
16	Strontium (Sr)	N.D.	56000	100
17	Tin (Sn)	N.D.	180000	10
18	Organic tin (Sn)	N.D. ^{*3}	12 ^{*4}	4.9 ^{*3/1} ^{*4}
19	Zinc (Zn)	N.D.	46000	100
Conclusion	PASS	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram = part per million = ppm
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)
(d) N.C.: Not conclusive

*1: Categories of various materials:
Category I: Dry, brittle, powder like or pliable material
Category II: Liquid or sticky material
Category III: Scraped-off material
*2: Reported as soluble Chromium.
*3: Reported as soluble Tin.
*4: Expressed as soluble Tributyltin.

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4 Heavy Metals Content in Packaging Material

PASS

Cadmium, Lead, Mercury and Total Chromium referring to EPA 3052-1996, determined by ICP-AES.
Chromium(VI) referring to EPA 3060A-1996 + EPA 7196A-1992, determined by spectrophotometer.

Table 4.1

	Compound	Material #1	Material #2	Limit (mg/kg)	RL (mg/kg)
1	Cadmium(Cd)	N.D.	N.D.	-	10
2	Lead (Pb)	N.D.	N.D.	-	10
3	Mercury(Hg)	N.D.	N.D.	-	10
4	Chromium(VI) (Cr(VI))* ¹	N.D.	N.D.	-	10
5	Sum of 1, 2, 3 & 4	N.D.	N.D.	100	-
	Conclusion	PASS	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram = part per million = ppm
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)
(d) N.C.: Not conclusive

*1: Total chromium was determined to evaluate the content of Hexavalent Chromium (Cr(VI)). The result of total chromium N.D. indicates that no Cr(VI) was found in the material.

5. Azo Colorants - Textile

PASS

EN 14362-1:2012 & EN 14362-3:2012, solvent extract and determined by GC/MS and HPLC

Table 5.1

	Compound	Material #1	Material #2	Limit (mg/kg)	RL (mg/kg)
1	4-Aminobiphenyl CAS#92-67-1	N.D.	N.D.	30	5
2	Benzidine CAS#92-87-5	N.D.	N.D.	30	5
3	4-Chloro-2-methylaniline CAS#95-69-2	N.D.	N.D.	30	5
4	2-Naphthylamine CAS#91-59-8	N.D.	N.D.	30	5
5	ortho-Aminoazotoluene ^{*1} CAS#97-56-3	N.D.	N.D.	30	5
6	5-Nitro-o-toluidine ^{*2} CAS#99-55-8	N.D.	N.D.	30	5
7	4-Chloroaniline CAS#106-47-8	N.D.	N.D.	30	5



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8	2,4-Diaminoanisole CAS#615-05-4	N.D.	N.D.	30	5
9	4,4'-Diaminodiphenylmethane CAS#101-77-9	N.D.	N.D.	30	5
10	3,3'-Dichlorobenzidine CAS#91-94-1	N.D.	N.D.	30	5
11	3,3'-Dimethoxybenzidine CAS#119-90-4	N.D.	N.D.	30	5
12	3,3'-Dimethylbenzidine CAS#119-93-7	N.D.	N.D.	30	5
13	3,3'-Dimethyl-4,4'-diaminodiphenylmethane CAS#838-88-0	N.D.	N.D.	30	5
14	para-Cresidine CAS#120-71-8	N.D.	N.D.	30	5
15	4,4'-Methylenebis(2-chloroaniline) CAS#101-14-4	N.D.	N.D.	30	5
16	4,4'-Oxybisbenzenamine CAS#101-80-4	N.D.	N.D.	30	5
17	4,4'-Thiobisbenzenamine CAS#139-65-1	N.D.	N.D.	30	5
18	ortho-Toluidine CAS#95-53-4	N.D.	N.D.	30	5
19	Toluene-2,4-Diamine CAS#95-80-7	N.D.	N.D.	30	5
20	2,4,5-Trimethylamiline CAS#137-17-7	N.D.	N.D.	30	5
21	o-Anisidine CAS#90-04-0	N.D.	N.D.	30	5
22	4-Aminoazobenzene CAS#60-09-3	N.D. ^{*3}	N.D. ^{*3}	30	5
Conclusion		PASS	PASS	--	--

Remark(s): (a) mg/kg: milligram per kilogram = part per million = ppm
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)
(d) N.C.: Not conclusive

*1 ortho-Aminoazotoluene (CAS#97-56-3) is detected as ortho-Toluidine (CAS#95-53-4)

*2 5-Nitro-o-toluidine (CAS#99-55-8) is detected as Toluene-2,4-Diamine (CAS#95-80-7)

*3 Determination of 4-Aminoazobenzene (CAS#60-09-3) is based on detection of aniline (CAS#62-53-3) and 1,4-phenylenediamine (CAS#106-50-3)

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6. Material List

Table 6.1

Material #	Component	Description
1	Mainbody	Grey textile/dark purple flocking
2	Band	Black textile

7. Photo(s)



Product

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