



**Test Report**

Number: H-154097  
(HKGH0114533901)

Conclusion:

<u>Tested samples</u> Submitted samples	<u>Standard</u> EN71-1 : 2005 and A9 : 2009 for mechanical and physical properties excluding clause 7.1	<u>Result</u> Pass
	EN71-2 : 2006 + A1 : 2007 flammability test	Pass
Tested components of submitted samples	EN71-3 : 1994 and amendment A1 : 2000 and AC : 2002 for toxic elements test	Pass
	Azocolourants content requirement in Annex XVII Item 43 of the REACH Regulation (EC) no. 1907/2006 & amendment no. 552/2009 (formerly known as Directive 2002/61/EC)	Pass
	Phthalates content requirement in Annex XVII Items 51 & 52 of the REACH Regulation (EC) no. 1907/2006 & amendment no. 552/2009 (formerly known as Directive 2005/84/EC)	Pass

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Prepared and checked by:  
For Intertek Testing Services

Suzanna Chan



Approved for and on behalf of  
Intertek Testing Services  
(Leicester) Ltd

Philip Bullock  
Technical Manager



**Test Report**

Number: H-154097  
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Tests Conducted

1 Mechanical and Physical Test

As per European Standard on Safety of toys EN71-1 : 2005 + A9 : 2009.

Applicant's specified age group for testing : Ages over 3 years.

<u>Clause</u>	<u>Testing items</u>	<u>Assessment</u>
4*	General requirements	P
5	Toys intended for children under 36 months	NA
6	Packaging	NA
7	Warnings and instructions for use	#1/#2

Remark : P = Pass NA = Not Applicable

\* = The following subclauses of Clause 4 of the standard were applicable : -

- 1) 4.1 Materials - cleanliness visual examination.
- 2) 4.7 Edges.
- 3) 4.8 Points and metallic wires.

#1 = The item shall be labelled with the name and address of the representative or importer in EEC together with a CE-marking on the toy or on its packaging. If this information was not fixed to the toy itself, it should be accompanied by a notice in advising the purchaser to retain it.

However, after checking of the tested sample, it was found that the name and address of the importer in EEC was missed.

#2 = Appropriate age warning statement, graphical symbol and the indication of hazard was found on the packaging.

Date sample received : Apr 26, 2011  
Testing period : Apr 26, 2011 to May 03, 2011

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Tests Conducted

2 Flammability Test

As per European Standard on Safety of toys EN71-2 : 2006 + A1 : 2007.

<u>Clause</u>	<u>Testing items</u>	<u>Assessment</u>
4.1*	General	P
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended to be worn by a child in play	NA
4.4	Toys intended to be entered by a child	NA
4.5	Soft filled toys (Animal and Dolls etc.) with a piled or textile surface	NA

Remark : P = Pass NA = Not applicable

\* = The test result on surface flash flammability test on pile fabric shall refer to the corresponding test item in this report.

Date sample received : Apr 26, 2011  
Testing period : Apr 26, 2011 to May 03, 2011

3 Surface Flash Flammability Test

As per European Standard on safety of toys EN71-2 : 2006 + A1 : 2007 clause 4.1. Test method refer to ISO6941:2003 and EN1103:2005.

Result : Pass

Propane gas was used for testing.

Tested component : 8mm plush.

Date sample received : Apr 26, 2011  
Testing period : Apr 26, 2011 to Apr 29, 2011

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Tests Conducted

4 Toxic Elements Analysis

As per European Standard on Safety of toys EN71-3 : 1994 and amendment A1 : 2000 and AC : 2002, acid extraction method was used and toxic elements content were determined by Inductively Coupled Argon Plasma Spectrometry.

	<u>Result in mg/kg</u>					<u>Limit</u>
	<u>(1)</u>	<u>(3)</u>	<u>(4)</u>	<u>(5)</u>	<u>(6)</u>	<u>mg/kg</u>
Sol. Barium (Ba)	<5	<5	<5	<5	<5	1000
Sol. Lead (Pb)	<5	<5	<5	<5	<5	90
Sol. Cadmium (Cd)	<5	<5	<5	<5	<5	75
Sol. Antimony (Sb)	<5	<5	<5	<5	<5	60
Sol. Selenium (Se)	<5	<5	<5	<5	<5	500
Sol. Chromium (Cr)	<5	<5	<5	<5	<5	60
Sol. Mercury (Hg)	<5	<5	<5	<5	<5	60
Sol. Arsenic (As)	<2.5	<2.5	<2.5	<2.5	<2.5	25

	<u>Result in mg/kg</u>					<u>Limit</u>
	<u>(7)</u>	<u>(8)</u>	<u>(9)</u>	<u>(10)</u>	<u>(11)</u>	<u>mg/kg</u>
Sol. Barium (Ba)	<5	<5	<5	<5	<5	1000
Sol. Lead (Pb)	<5	<5	<5	<5	<5	90
Sol. Cadmium (Cd)	<5	<5	<5	<5	<5	75
Sol. Antimony (Sb)	<5	<5	<5	<5	<5	60
Sol. Selenium (Se)	<5	<5	<5	<5	<5	500
Sol. Chromium (Cr)	<5	<5	<5	<5	<5	60
Sol. Mercury (Hg)	<5	<5	<5	<5	<5	60
Sol. Arsenic (As)	<2.5	<2.5	<2.5	<2.5	<2.5	25

	<u>Result in mg/kg</u>			<u>Limit</u>
	<u>(12)</u>	<u>(13)</u>	<u>(14)</u>	<u>mg/kg</u>
Sol. Barium (Ba)	<5	<5	<5	1000
Sol. Lead (Pb)	<5	<5	<5	90
Sol. Cadmium (Cd)	<5	<5	<5	75
Sol. Antimony (Sb)	<5	<5	<5	60
Sol. Selenium (Se)	<5	<5	<5	500
Sol. Chromium (Cr)	<5	<5	<5	60
Sol. Mercury (Hg)	<5	<5	<5	60
Sol. Arsenic (As)	<2.5	<2.5	<2.5	25

Sol. = Soluble  
< = Less than  
mg/kg = milligram per kilogram

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**Test Report**

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Tests Conducted

Tested Components :

- (1) Coatings (black/white) on woven (sewn-in label).
- (2) @ White coating on satin (barbie logo).
- (3) Transparent plastic (small bag).
- (4) Purple elastic band (small bag).
- (5) Transparent plastic sheet with inaccessible coatings and backing (small/big bags).
- (6) Transparent purple plastic (zipper teeth).
- (7) White embroidery thread (badge).
- (8) Purple embroidery thread (badge).
- (9) Purple satin (cover of small bag) with purple thread.
- (10) White woven excluding black/white coatings (sewn-in label).
- (11) Purple webbing with dark pink thread (edge of zipper).
- (12) Purple fabric (zipper tape).
- (13) Purple ribbon (big bag).
- (14) 7mm White plush (big bag).

@ : Since the sample weight of the component was less than 10 mg, toxic elements analysis was not conducted.

Date sample received : Apr 26, 2011  
Testing period : Apr 26, 2011 to May 03, 2011

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Tests Conducted

5 Detection of Amines in Dyestuff

By extraction on cut sample according to the below listed test method(s), followed by Gas Chromatographic - Mass Spectrometric (GC-MS) analysis.

Test method : Textile method (EN 14362-1 : 2003)  
Polyester method (EN 14362-2 : 2003)

	<u>Forbidden Amine</u>	<u>CAS No.</u>	<u>Result</u>		
			<u>(1/9)</u>	<u>Non-polyester (5/8)</u>	<u>(10)</u>
1.	4-Aminodiphenyl	92-67-1	N	N	N
2.	Benzidine	92-87-5	N	N	N
3.	4-Chloro-o-toluidine	95-69-2	N	N	N
4.	2-Naphthylamine	91-59-8	N	N	N
5.	o-Aminoazotoluene	97-56-3	N	N	N
6.	2-Amino-4-nitrotoluene	99-55-8	N	N	N
7.	p-Chloroaniline	106-47-8	N	N	N
8.	2,4-Diaminoanisole	615-05-4	N	N	N
9.	4,4'-Diaminodiphenylmethane	101-77-9	N	N	N
10.	3,3'-Dichlorobenzidine	91-94-1	N	N	N
11.	3,3'-Dimethoxybenzidine	119-90-4	N	N	N
12.	3,3'-Dimethylbenzidine	119-93-7	N	N	N
13.	3,3'-Dimethyl-4,4'diaminodiphenylmethane	838-88-0	N	N	N
14.	p-Cresidine	120-71-8	N	N	N
15.	4,4'-Methylene-bis(2-chloroaniline)	101-14-4	N	N	N
16.	4,4'-Oxydianiline	101-80-4	N	N	N
17.	4,4'-Thiodianiline	139-65-1	N	N	N
18.	o-Toluidine	95-53-4	N	N	N
19.	2,4-Toluylenediamine	95-80-7	N	N	N
20.	2,4,5-Trimethylaniline	137-17-7	N	N	N
21.	o-Anisidine	90-04-0	N	N	N
22.	p-Aminoazobenzene	60-09-3	N	N	N

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Tests Conducted

	<u>Forbidden Amine</u>	<u>CAS No.</u>	<u>Result Polyester</u>	
			<u>(1/2/3)</u>	<u>(4/6/7)</u>
1.	4-Aminodiphenyl	92-67-1	N	N
2.	Benzidine	92-87-5	N	N
3.	4-Chloro-o-toluidine	95-69-2	N	N
4.	2-Naphthylamine	91-59-8	N	N
5.	o-Aminoazotoluene	97-56-3	N	N
6.	2-Amino-4-nitrotoluene	99-55-8	N	N
7.	p-Chloroaniline	106-47-8	N	N
8.	2,4-Diaminoanisole	615-05-4	N	N
9.	4,4'-Diaminodiphenylmethane	101-77-9	N	N
10.	3,3'-Dichlorobenzidine	91-94-1	N	N
11.	3,3'-Dimethoxybenzidine	119-90-4	N	N
12.	3,3'-Dimethylbenzidine	119-93-7	N	N
13.	3,3'-Dimethyl-4,4' diaminodiphenylmethane	838-88-0	N	N
14.	p-Cresidine	120-71-8	N	N
15.	4,4'-Methylene-bis(2-chloroaniline)	101-14-4	N	N
16.	4,4'-Oxydianiline	101-80-4	N	N
17.	4,4'-Thiodianiline	139-65-1	N	N
18.	o-Toluidine	95-53-4	N	N
19.	2,4-Toluylenediamine	95-80-7	N	N
20.	2,4,5-Trimethylaniline	137-17-7	N	N
21.	o-Anisidine	90-04-0	N	N
22.	p-Aminoazobenzene	60-09-3	N	N

Remark : N = Not detected (less than 20 ppm)  
Detection limit = 5 ppm  
Requirement = 30 ppm (max.)  
ppm = parts per million = mg/kg

Tested components :

- (1) Purple satin (cover of small bag) (100% polyester) with white coating.
- (2) Dark pink embroidery thread (small bag) (100% polyester).
- (3) White embroidery thread (badge) (100% polyester).
- (4) Purple embroidery thread (badge) (100% polyester).
- (5) 7mm white woven with black/white coatings (sewn-in label) (100% nylon).
- (6) Purple fabric (zipper tape) (100% polyester).
- (7) Purple ribbon (big bag) (100% polyester).
- (8) White plush (big bag) (100% nylon).
- (9) Purple webbing (edge of zipper) (100% polypropylene).
- (10) Purple elastic band (100%nylon).

Date sample received : Apr 26, 2011 and May 04, 2011  
Testing period : Apr 26, 2011 to May 09, 2011

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Tests Conducted

6 Phthalate Content Test

With reference to EN14372, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

	<u>Result (% w/w)</u>				<u>Limit (% w/w)</u>
	<u>(1/2)</u>	<u>(3/4)</u>	<u>(5/6)</u>	<u>(7/8/9)</u>	<u>(max.)</u>
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01	<0.01	--
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	<0.01	<0.01	--
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01	<0.01	--
Sum of DBP,DEHP & BBP	<0.01	<0.01	<0.01	<0.01	0.1
Di-iso-nonyl phthalate (DINP)	<0.01	<0.01	<0.01	--	--
Di-n-octyl phthalate (DnOP)	<0.01	<0.01	<0.01	--	--
Di-iso-decyl phthalate (DIDP)	<0.01	<0.01	<0.01	--	--
Sum of DINP,DnOP & DIDP	<0.01	<0.01	<0.01	--	0.1

Remark : The above limit was quoted according to Annex XVII Items 51 & 52 of the REACH Regulation (EC) no. 1907/2006 & amendment no. 552/2009 (formerly known as Directive 2005/84/EC) for phthalate content in toys and children articles.

< = Less than

Tested components :

- (1) Coatings (black/white) on woven (sewn-in label).
- (2) White coating on fabric (Barbie logo).
- (3) Transparent plastic (small bag).
- (4) Purple elastic band (small bag/ big bags).
- (5) Transparent plastic sheet with inaccessible coatings and backing (inside of bag).
- (6) Transparent purple plastic.
- (7) Translucent white plastic (backing of small bag) (internal).
- (8) White foam (backing of small bag) (internal).
- (9) Translucent white foam (backing of big bag) (internal).

Date sample received : Apr 26, 2011 and Apr 30, 2011

Testing period : Apr 26, 2011 to May 04, 2011

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End of report

"The items were tested by Intertek Testing Services Hong Kong Ltd., for and on behalf of Intertek Testing Services (Leicester) Ltd."

