



## Test Report

No.: SHHG1111034479IP-01

Date: DEC.02,2011

Page: 1 of 10

ZHEJIANG BABY ENJOY BABY PRODUCTS MANUFACTURING CO., LTD.  
NO 16, YONGQING NORTH ROAD, CHONGSHOU TOWN, CIXI NINGBO, ZHEJIANG PROVINCE

THIS TEST RESULT IS COPIED FROM THE TEST REPORT No.: SHHG1111034479IP  
DATE: NOV.28,2011

The following sample(s) was/were submitted and identified by the client as:

Sample Description : BABY COT ; BED RAIL  
Manufacturer : ZHEJIANG BABY ENJOY BABY PRODUCTS  
MANUFACTURING CO., LTD.  
Country of Origin : CHINA  
Supplier : ZHEJIANG BABY ENJOY BABY PRODUCTS  
MANUFACTURING CO., LTD.  
Country of Destination : EU  
Sample Receiving Date : NOV.03,2011  
1<sup>st</sup> Resubmitted Date : NOV.21,2011  
Further Information : NOV.28,2011  
Testing Period : NOV.03,2011 TO NOV.28,2011  
Test Performed : SELECTED TEST(S) AS REQUESTED BY APPLICANT  
Test Requested : BS EN 716:2008 CHILDREN'S COTS AND FOLDING  
COTS FOR DOMESTIC USE. PART 1: SAFETY  
REQUIREMENTS; PART 2: TEST METHODS  
Test Result(s) : FOR FURTHER DETAILS, PLEASE REFER TO THE  
FOLLOWING PAGE(S)  
Conclusion : THE SUBMITTED SAMPLE MET THE TEST  
REQUIREMENT OF REQUESTED TEST ITEMS.

\*\*\*\*\*

Signed for and on behalf of  
SGS-CSTC Ltd.

Oliva Kou  
Operation Manager

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**Test Conducted :**

**EN716-1:2008 Furniture — Children’s cots and folding cots for domestic use — Part 1: Safety requirements and Part 2: Test methods**

1. Scope

This part of EN 716 specifies safety requirements for children's cots for domestic use with an internal length greater than 900 mm but not more than 1 400 mm. The requirements apply to a cot that is fully assembled and ready for use. Cots that can be converted into other items e.g. changing units, playpens should, when converted, comply with the relevant European standard for that item. This standard does not apply to carry cots, cribs and cradles for which a separate European standard exists.

2. Number of test specimen: 1 Piece of sample without package

3. Test Result: Details Shown As Following Table:

Clause	Test Method/ Requirement	Rating
<b>4</b>	<b>Safety Requirement</b>	
<b>4.1</b>	<b>General</b> With the exception of the requirements specified in clause 4.2, the requirements apply both before and after testing in accordance with EN716-2.	Pass
<b>4.2</b>	<b>Materials</b>	
<b>4.2.1</b>	<b>Materials and surfaces</b> The manufacturer/importer/retailer shall provide verification that all accessible parts meet the relevant requirements from EN 71-3.	Pass (refer to attached chemical report)
<b>4.2.2</b>	<b>Flammability of textiles, coated textiles and plastic coverings</b> When tested in accordance with 5.4 of EN 71-2:2006, the maximum rate of spread of flame of textile, coated textiles or plastic coverings shall be 30 mm/s. When tested in accordance with EN 1103, there shall be no flash-effect.	N/C
<b>4.3</b>	<b>Construction</b>	
<b>4.3.1</b>	<b>General</b>	
<b>4.3.1.1</b>	<b>Edges and protruding parts</b> Edge and protruding parts accessible during normal use shall be rounded or chambered and free of burrs and sharp edges.	Pass

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Clause	Test Method/ Requirement	Rating
4.3.1.2	<b>Self-tapping screws</b> Self-tapping screws shall not be used to fasten any component that is designed to be removed or loosened when dismantling the cot for purposes of transportation or storage.	Pass
4.3.1.3	<b>Labels and decals</b> Glued labels and decals shall not be used on the internal surfaces of cot sides and ends.	Pass
4.3.1.4	<b>Small parts</b> When tested in accordance with 5.4 of EN 716-2:2008, no accessible part that can be detached shall fit wholly within the small parts cylinder.	Pass
4.3.1.5	<b>Castors and wheels</b> Castors shall not be fitted except in the following arrangement, either: a) Two or more castors/wheels and at least two other support points, or b) At least four castors/wheels, of which at least two can be locked.	Pass
<b>4.3.2</b>	<b>Holes, gaps and openings on the inside of the cot</b>	
4.3.2.1	<b>General</b> With the exception of the holes, gaps and openings specified in 4.3.2.2, 4.3.2.3, 4.3.2.5, 4.2.3.6, 4.3.4.2 and 4.3.4.3 all other accessible holes, gaps and openings shall be less than 7 mm, between 12 mm and 25 mm, or between 45 mm and 65 mm when tested in accordance with 5.3.1 of EN 716-2:2008.	Pass
4.3.2.2	<b>Assembly holes</b> There shall be no accessible holes between 7 mm diameter and 12 mm diameter, unless the depth is less than 10 mm.	N/A
4.3.2.3	<b>Distance between cot base and sides and ends</b> When tested in accordance with 5.3.1 of EN 716-2:2008, it shall not be possible for the 25 mm cone to pass between the cot base and the sides, and between the cot base and the ends.	Pass
4.3.2.4	<b>Opening in mesh sides and ends</b> When the sides or ends are of mesh, it shall not be possible for the 7 mm cone as described in 5.3.1 of EN 716-2:2008 to pass through the holes of the mesh.	Pass
4.3.2.5	<b>Distance between slats of the cot base</b> When tested in accordance with 5.3.1 of EN 716-2:2008, it shall not be possible for the 60 mm cone to pass between two adjacent slats of the cot base.	N/A

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Clause	Test Method/ Requirement	Rating
4.3.2.6	<b>Openings in mesh of the cot base</b> When tested in accordance with 5.3.1 of EN 716-2:2008, it shall not be possible for the 85 mm cone to pass through a cot base made of mesh.	N/A
4.3.3	<b>Head entrapment on the outside of the cot</b> The following requirements do not apply to cots that have mesh or fabric sides/ends and a rigid leg or support system, when the lowest part of the opening is less than 200 mm from the floor. When tested in accordance with 5.3.2 of EN 716-2:2008, completely bound openings on the outside(exterior) of the cot that allow passage of the small head probe, shall also allow the large head probe to pass completely through the bound opening. Completely bound openings that allow the large probe to pass completely through shall comply with the requirement for partially bound, V and irregular shaped openings when tested in accordance with 5.3.2 of EN 716-2:2008.	N/A
4.3.4	<b>Shear and squeeze points</b>	
4.3.4.1	<b>Shear and squeeze points when setting up and folding</b> If 4.3.4.2 or 4.3.4.3 are not applicable, shear and squeeze points that are created only when setting up or folding are permitted.	Pass
4.3.4.2	<b>Shear and squeeze points under the influence of powered mechanisms</b> When powered or spring loaded mechanisms are used, the distance between two accessible parts moving relative to each other shall always be greater than 18 mm or smaller than 5 mm.	N/A
4.3.4.3	<b>Shear and squeeze points during use</b> There shall be no accessible shear and squeeze points which close to less than 18 mm unless they are always less than 5 mm during the last load application according to 5.8.1 of EN 716-2:2008.	Pass
4.3.5	<b>Snag points</b> When tested in accordance with 5.9 of EN 716-2:2008, the mass shall not be supported by any part accessible from inside the cot. Parts of cot sides and ends more than 1400 mm above the cot base are considered not accessible.	Pass
4.3.6	<b>Locking systems</b>	
4.3.6.1	<b>Locking systems for folding cots</b> Folding cot that fold towards the inside shall be equipped at least two locking systems fulfilling the requirements of 4.3.6.2. In order to prevent a folding cot from folding unintentionally, all other folding cots shall be equipped with a locking system fulfilling the requirements of 4.3.6.2.	Pass

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Clause	Test Method/ Requirement	Rating
	The cot shall not fold and the locking system shall fulfill its function when tested in accordance with 5.11 of EN 716-2:2008.	
4.3.6.2	<p><b>All locking systems</b>            With the exception of the locks on castors/wheels, all locking systems shall:</p> <ul style="list-style-type: none"> <li>a) have a residual force of at least 50 N (tangential when relevant) for operation when tested in accordance with 5.11 of EN 716-2:2008;</li> <li>b) require at least two consecutive actions operating on different principles, the second being dependent on the first having been carried out and maintained; or</li> <li>c) require at least two separate but simultaneous actions operating on different principles; or</li> <li>d) have two operating devices separate by a distance of at least 850 mm and required to be operated simultaneously; or</li> <li>e) require the cot base to be lifted to allow folding of the cot.</li> </ul> <p>If the weight of the child on the cot base has a positive effect on the locking, this is accepted as an operating device.            The locking system shall fulfil its function before and after testing in accordance with 5.11 of EN 716-2:2008.</p>	Pass
<b>4.3.7</b>	<b>Cot base</b>	
4.3.7.1	<p><b>Mattress base and cot base fixing</b>            It shall not be possible for the child within the cot to lift the mattress base or cot base.</p>	Pass
4.3.7.2	<p><b>Adjustable cot base</b>            If the cot base is adjustable, adjustment from a higher position to a lower position shall require the use of a tool or operation of a locking system, which fulfils the requirements of 4.3.6.2.</p>	N/A
4.3.7.3	<p><b>Strength of the cot base</b>            When tested in accordance with 5.6 of EN 716-2:2008, no element of the cot base shall break, nor shall the cot base become dislodged and the function of the cot shall not be impaired.</p>	Pass
<b>4.3.8</b>	<b>Sides and ends</b>	
4.3.8.1	<p><b>Movable sides</b>            Movable sides shall be provided with a locking system fulfilling the requirements of 4.3.6.2. The locking system shall engage automatically when the movable side is closed.</p>	N/A
4.3.8.2	<p><b>Distance between footholds and top of cot sides and ends</b>            When tested in accordance with 5.8.1 of EN 716-2:2008, under load, the</p>	Pass

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Clause	Test Method/ Requirement	Rating
	<p>distance between the upper side of the cot base/mattress base and upper edge of the cot side and end shall be at least 600 mm.</p> <p>When tested in accordance with 5.2.3 of EN716-2:2008, there shall be a distance of at least 600 mm between the top of any foothold and the top of the cot side and end.</p> <p>With the cot base and the sides/ends in the highest position, the distance between the upper side of the cot base and the upper edge of the cot side and end shall be at least 300 mm, measured from the lowest point of the side and end.</p>	
4.3.8.3	<p><b>Strength of side and end components</b></p> <p>When tested in accordance with 5.7.1, 5.7.2 and 5.7.3 of EN716-2:2008, the slats or sides and ends and corners shall neither break nor become detached. The function of the cot shall not be impaired.</p> <p>When tested in accordance with 5.7.4 of EN716-2:2008, the threads of the mesh and other flexible materials, e.g. fabrics, plastics shall not break and the function of the cot shall not be impaired.</p>	Pass
4.3.8.4	<p><b>Strength of frame and fastenings</b></p> <p>When tested in accordance with 5.8.1 and 5.8.2 of EN716-2:2008, there shall be no breakage. The function of the cot shall not be impaired.</p> <p>The tested in 5.8.2 of EN716-2:2008 is not applicable to folding cots.</p>	Pass
4.3.9	<p><b>Cot rim</b></p> <p>No filling shall be removed from the cot rim when tested in accordance with 5.5 of EN716-2:2008.</p>	Pass
4.4	<p><b>Stability</b></p> <p>When tested in accordance with 5.10 of EN 716-2:2008, the cot shall not overturn.</p>	Pass
4.5	<p><b>Mattress size</b></p> <p>If a mattress is supplied with the cot, the dimensions of the mattress shall be specified in clause 6 l).</p>	N/A
5	<p><b>Packaging</b></p>	N/A
6	<p><b>Instructions for use</b></p>	N/C
7	<p><b>Marking</b></p>	N/C

Note: N/A= Not applicable

N/C= Not conducted as per client's request

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### For Assembling:

No defect observed before testing, sample was pre-assembled properly/ assembled properly followed by provided assembly instruction manual.

### Sample Photo:

Side view



Front view



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## Chemical result:

### Test Part Description :

Specimen No.	SGS Sample ID	Description
1	SHA11-188989.001	White coating
2	SHA11-188989.002	Black fabric
3	SHA11-188989.003	Black plastic corner(smooth)
4	SHA11-188989.004	Black plastic corner
5	SHA11-188989.005	White mesh
6	SHA11-188989.006	Black Velcro
7	SHA11-188989.007	Black webbing
8	SHA11-188989.008	Black plastic ring(webbing)
9	SHA11-188989.009	Red webbing
10	SHA11-188989.010	Black coating(bottom)
11	SHA11-188989.011	White plastic cap
12	SHA11-188989.012	Black plastic wheel
13	SHA11-188989.013	Black plastic wheel holder
14	SHA11-188989.014	Black binding

### Remarks :

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected ( < MDL )
- (4) "-" = Not Regulated

### **EN 71 Part3:1994 (including amendment A1:2000/AC:2002) - Migration of Certain Elements**

Test Method : With reference to EN 71 Part 3:1994 + A1:2000 + AC: 2002, analysis was performed by ICP-OES

Test Item(s)	Limit	Unit	MDL	001	002	003
Soluble Lead (Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic (As)	25	mg/kg	5	ND	ND	ND
Soluble Barium (Ba)	1,000	mg/kg	10	284	ND	ND
Soluble Cadmium (Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium (Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium (Se)	500	mg/kg	10	ND	ND	ND

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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>004</u>	<u>005</u>	<u>006</u>
Soluble Lead (Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic (As)	25	mg/kg	5	ND	ND	ND
Soluble Barium (Ba)	1,000	mg/kg	10	ND	ND	ND
Soluble Cadmium (Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium (Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium (Se)	500	mg/kg	10	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>007</u>	<u>008</u>	<u>009</u>
Soluble Lead (Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic (As)	25	mg/kg	5	ND	ND	ND
Soluble Barium (Ba)	1,000	mg/kg	10	ND	ND	12
Soluble Cadmium (Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium (Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium (Se)	500	mg/kg	10	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>010</u>	<u>011</u>	<u>012</u>
Soluble Lead (Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic (As)	25	mg/kg	5	ND	ND	ND
Soluble Barium (Ba)	1,000	mg/kg	10	305	ND	ND
Soluble Cadmium (Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium (Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium (Se)	500	mg/kg	10	ND	ND	ND

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# Test Report

No.: SHHG1111034479IP-01

Date: DEC.02,2011

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Test Item(s)	Limit	Unit	MDL	013	014
Soluble Lead (Pb)	90	mg/kg	5	ND	ND
Soluble Antimony (Sb)	60	mg/kg	5	ND	ND
Soluble Arsenic (As)	25	mg/kg	5	ND	ND
Soluble Barium (Ba)	1,000	mg/kg	10	ND	ND
Soluble Cadmium (Cd)	75	mg/kg	5	ND	ND
Soluble Chromium (Cr)	60	mg/kg	5	ND	ND
Soluble Mercury (Hg)	60	mg/kg	5	ND	ND
Soluble Selenium (Se)	500	mg/kg	10	ND	ND

Notes :

- (1) Results shown are of the adjusted analytical results.
- (2) Mass of trace amount of sample 010 is 90.8mg

Sample photo:



## SHAHG1118898901

SGS authenticate the photo on original report only

\*\*\*End of Report\*\*\*

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