



Test Report

No.: NBHL1710016980IP

Date: DEC. 04, 2017

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ZHEJIANG MODUN SANITARY WARE CO.,LTD
NO.366, 21TH BINHAI ROAD, ECONOMIC DEVELOPMENT ZONE LONGWAN,WENZHOU,
ZHEJIANG,CHINA

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

Sample Description : HORIZONTAL BABY CHANGING STATION

Style No. : M-B2-2
Item No. : M-B2-2
Supplier : ZHEJIANG MODUN SANITARY WARE CO.,LTD
Manufacturer : ZHEJIANG MODUN SANITARY WARE CO.,LTD
Country of Origin : CHINA
Sample Receiving Date : OCT. 19, 2017
Resubmitted Sample Date : NOV. 24, 2017
Further Information Date : NOV. 30, 2107
Testing Period : OCT. 19, 2017 TO DEC. 04, 2017

Test Requested

EN 12221: 2008+A1: 2013 CHANGING UNITS FOR DOMESTIC USE: PART 1:
SAFETY REQUIREMENTS- EXCLUDING CLAUSE 6, CLAUSE 7, CLAUSE 8 &
CLAUSE 9; PART 2: TEST METHODS

Result

Meet client's requirements

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Ningbo Branch

Sarah Li

Sarah Li
Authorized Signatory



SGS-CSTC Standards Technical Services Co., Ltd.
Ningbo Branch Hardlines

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Test Conducted:

EN 12221: 2008+A1: 2013 CHANGING UNITS FOR DOMESTIC USE: PART 1: SAFETY REQUIREMENTS- EXCLUDING CLAUSE 6, CLAUSE 7, CLAUSE 8 & CLAUSE 9; PART 2: TEST METHODS

1. Scope

This part of EN 12221 specifies safety requirements for changing units for domestic use for children with a body weight no more than 15 kg.

EN 12221 only covers the function of the item as a changing unit. If the changing unit can be converted or used as another function it shall comply with other relevant standards, e.g. cots, storage furniture, etc.

The changing unit may be foldable and can be fitted with a child bathtub or other additional items. Changing pads are only covered by this standard when they form a part of the changing unit.

2. Number of test specimen: 1 Piece of packaged sample

3. Test Result: Details Shown As Following Table:

Clause	Test Method/ Requirement	Rating									
4	General requirements										
4.1	Dimensions The dimension of the changing area shall be at least as defined as follows: <table border="1"> <tr> <th>Changing unit type</th><th>Width</th><th>Length</th></tr> <tr> <td>1</td><td>380mm</td><td>650mm</td></tr> <tr> <td>2</td><td>550mm</td><td>750mm</td></tr> </table>	Changing unit type	Width	Length	1	380mm	650mm	2	550mm	750mm	Pass (Type 1)
Changing unit type	Width	Length									
1	380mm	650mm									
2	550mm	750mm									
4.2	Materials										
4.2.1	Wood Wood, wood-based materials and materials of vegetable origin shall be free from decay and insect attack.	N/A									
4.2.2	Surfaces and materials Any coating of paint, varnish, lacquer or similar substances and parts consisting of dyed materials, leather, textiles, and plastics materials within the accessibility zone shall be made using products which in their soluble compound do not exceed the following amounts: Antimony : 60 mg/kg Arsenic : 25 mg/kg Barium : 1000 mg/kg Cadmium : 75 mg/kg Chromium : 60 mg/kg Lead : 90 mg/kg Mercury : 60 mg/kg Selenium : 500 mg/kg Where a surface is coated with a multi-layer paint or similar coating, the sample shall be taken down to the base material. The test procedure is defined in EN 71-3.	See Result									
5	Construction										
5.1*	Holes, gaps and openings										



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Clause	Test Method/ Requirement	Rating
5.1.1*	Entrapment of fingers Within the accessibility zone there shall be no holes, gaps and openings with a width greater than 7 mm and less than 12 mm, unless the depth is less than 10 mm when measured in accordance with EN 12221-2:2008+A1:2013, 5.3.1.	Pass
5.1.2*	Entrapment of limbs Within the accessibility zone there shall be no holes, gaps and openings having a width greater than 25 mm and smaller than 45 mm when measured in accordance with EN 12221-2:2008+A1:2013, 5.3.2.	Pass
5.1.3	Entrapment of head, neck and torso	Pass
5.1.3.1	Within the accessibility zone there shall be no hole, gap or opening larger than 65 mm and less than 223 mm when measured in accordance with EN 12221-2:2008+A1:2013, 5.3.3.1.	Pass
5.1.3.2	Within the area 600 mm above the floor to the accessibility zone, see Figure 2, there shall be no hole, gap or opening accessible in normal use that allows the type 1 head probe to pass completely through unless it also allows the type 2 head probe to pass completely through, when tested in accordance with EN 12221-2:2008+A1:2013, 5.3.3.2	Pass
5.1.3.3	V-shaped openings Within the area 200 mm above the floor to the accessibility zone any hole, gap or opening accessible in normal use that allows the type 1 head probe to pass completely through shall not be a V-shaped opening as defined in 3.6 when tested in accordance with EN 12221-2:2008+A1:2013, 5.3.3.3.	N/A
5.1.4*	Cords, strings and other narrow fabrics Cords, strings and other narrow fabrics (e.g. those used for ties) shall have a free length of not more than 220 mm when tested in accordance with EN 12221-2:2008+A1:2013, 5.3.4.	N/A
5.1.5*	Loops Loops shall not have a peripheral dimension greater than 360 mm when tested in accordance with EN 12221-2:2008+A1:2013, 5.3.5.	N/A
5.2	Edges, points and corners Edges and protruding parts accessible in normal use shall be rounded or chamfered and free of burrs. The upper edges of the barriers and the changing surface shall have a radius of not less than 2 mm.	Pass
5.3	Moving parts Changing board flaps are excluded from this requirement, as they are covered by 5.12. When the changing unit is erected ready for use the distance between two parts within the accessibility zone which move relative to each other shall always be less than 5 mm or more than 12 mm throughout the entire movement when tested in accordance with EN 12221-2:2008+A1:2013, 5.4.	Pass



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Clause	Test Method/ Requirement	Rating
5.4	Locking and folding mechanisms of the complete unit If the changing unit can be folded it shall not fold when tested in accordance with EN 12221-2:2008+A1:2013, 5.10. Locking and folding mechanisms shall function correctly before and after being tested in accordance with EN 12221-2:2008+A1:2013, 5.10. When the changing unit is erected ready for use, the locking mechanisms shall fulfil one of the following requirements: a) require a minimum force of 50 N to release the folding mechanism before and after being tested according to EN 12221-2:2008+A1:2013, 5.10.2; or b) require at least two consecutive actions to release the mechanism, the operation of the second being dependent on the first having been carried out and maintained; or c) require at least two separate but simultaneous actions to release the mechanism, operating on different principles. Wall mounted changing units and changing board flaps are excluded from this requirement.	N/A
5.5	Small detachable components Any small detachable component of the changing unit that can be detached when tested in accordance with EN 12221-2:2008+A1:2013, 5.5 shall not fit wholly in the cylinder described in EN 12221-2:2008+A1:2013, 4.10	N/A
5.6	Castors/wheels Castors/wheels shall not be fitted except in the arrangement, either - two or more castors/wheels and at least two other support points; or - four or more castors/wheels, of which at least two can be locked - The locks shall prevent the castors/wheels from rolling and they shall not unlock when tested in accordance with EN 12221-2:2008+A1:2013, 5.12.	N/A
5.7	Self-tapping screws Self-tapping screws shall not be used to fasten any component that is designed to be removed or loosened when dismantling the changing units for purposes of transportation or storage.	Pass
5.8	Stability When tested in accordance with EN 12221-2:2008+A1:2013, 5.6, the changing unit shall not overturn and the maximum movement of any changing board flap shall be 10° from its closed position.	N/A
5.9	Strength When tested in accordance with EN 12221-2:2008+A1:2013, 5.7 the function of the changing unit shall be unimpaired.	Pass
5.10	Extension elements Extension elements located above the changing area shall be fitted with effective open stops.	N/A



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Clause	Test Method/ Requirement	Rating
5.11	Barriers Barriers shall be provided as an integral part of the changing unit or by means of an additional, item, e.g. changing pad, that can be affixed to the changing unit. a. If W is greater than L and greater than 600mm then the changing unit shall have barriers on three sides of the changing area covering at least 75% of L. b. If L is greater than W the changing unit shall have barriers on two sides of the changing area covering the full length of L. Where W is the width of changing unit and L is the length of the changing unit. For wall-mounted units, the wall is to be considered as a barrier. When tested in accordance with EN 12221-2:2008+A1:2013, 5.8, the barriers from the changing unit shall not become damaged or loosened, nor shall the test cylinder fall from the changing area.	Pass
5.12	Changing board flap	
5.12.1	Impact test Where the changing unit has a flap, which allows for an additional function, for example access to a bath, it shall not close and the fittings, e.g. locking mechanisms, hinges etc. shall not be damaged when tested in accordance with EN 12221-2:2008+A1:2013, 5.9.1.	N/A
5.12.2	Drop test Where the changing unit has a flap, locking mechanisms, hinges etc. shall not be damaged and the changing unit shall function normally after testing in accordance with EN 12221-2:2008+A1:2013, 5.9.2.	N/A
5.13	Child bath tub After testing in accordance with EN 12221-2:2008+A1:2013, 5.11, no breakage or leakage shall be observed. The child bathtub and the changing unit shall remain intact and function normally.	N/A
6	Packaging Any plastics covering used as packaging for changing units or pads, if applicable, that does not fulfill the requirements laid down of EN71-1, shall be conspicuously marked with the following warning: – “TO AVOID DANGER OF SUFFOCATION REMOVE THIS PLASTIC COVER BEFORE USING THIS ARTICLE, THIS COVER SHOULD THEN BE DESTROYED OR KEPT AWAY FROM CHILDREN”.	N/C
7	Instructions for use	N/C
8	Marking	N/C
9	Purchase information	N/C

Note: N/A = Not applicable; N/C = Not conducted as per client's request.

The item with * means it has been retested.



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Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	NGB17-053663.001	Light gray plastic body
SN2	NGB17-053663.002	Dark gray webbing
SN3	NGB17-053663.003	Black plastic button
SN4	NGB17-053663.004	White plastic part
SN5	NGB17-053663.005	Colorful plastic sticker (warning)

Remarks :

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

EN 71-3:2013+A2:2017 under European Directive 2009/48/EC-Migration of certain elements (Category III:for scrapped-off toy material)

Test Method : With reference to EN 71-3:2013+A2:2017, analysis was performed by ICP-OES.

Test Item(s)	Limit	Unit	MDL	001	002	003
Soluble Chromium (VI)	0.2	mg/kg	0.18	ND	ND	ND
Soluble Lead (Pb)	160	mg/kg	10	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	70000	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	4.9	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	004	005
Soluble Chromium (VI)	0.2	mg/kg	0.18	ND	ND
Soluble Lead (Pb)	160	mg/kg	10	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND



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Soluble Barium (Ba)	18750	mg/kg	50	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND
Soluble Aluminum (Al)	70000	mg/kg	50	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND
Soluble Tin (Sn)	180000	mg/kg	4.9	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND

Notes :

- (1) Confirmation test of soluble chromium (III) & chromium (VI) is not required in case of soluble chromium does not exceed their requirements as specified in EN 71-3:2013+A2:2017.
- (2) *Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in EN 71-3:2013+A2:2017.

Remark: The tests of EN 12221 PART 1: SAFETY REQUIREMENTS & PART 2: TEST METHODS were subcontracted to SGS SH LAB.



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Sample Photo:



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