



Test Report

APPLICANT : **TRUDI S.p.A.**
Via Europa, 28
22060 Cabiato (CO) – Italia

CONTACT PERSON : Ms. Carol Hoefken

SAMPLE DESCRIPTION : **PLAY PUZZLE CITY**
ITEM NO.: 81662
SUPPLIER: ZHEJIANG ZHONGYI ARTS & CRAFTS CO. LTD
DIMENSIONS: X=264mm; Y=264mm; Z=40mm



DATE OF SUBMISSION : 2009-03-02

TESTING PERIOD : 2009-03-03 To 2009-03-09

LABELED AGE GRADING : 36months+

AGE GRADING FOR TESTING : As declared by the client



Rapporto revisionato e approvato da
Report revised and approved by
Elisa Gavazza
Dot.ssa Elisa Gavazza
Direttore Tecnico
Technical Director

Istituto Italiano Sicurezza dei Giocattoli
Direttiva 88/378 Sicurezza dei Giocattoli
Directive 88/378 on Toys Safety

Approval Laboratory Signature

Approval Laboratory Signature

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Test Report

SUMMARY OF TEST RESULTS			
Test requested	Pass	Fail	Remark
EN71-1:2005 and amendment A6:2008 "Safety of toys – Part 1: Mechanical and physical properties"	X		
EN71-2:2006 and amendment A1:2007 "Safety of toys – Part 2: Flammability"	X		
EN71-3:1994 and amendments A1:2000+AC:2002 "Safety of toys – Part 3: Migration of certain elements"	X		

EXPLANATION OF THE ABBREVIATIONS FOR EN71 PART 1 AND 2

SYMBOL	EXPLANATION	SYMBOL	EXPLANATION
F	The samples are NOT IN COMPLIANCE with the requirement of this subclause	NE	Not Evaluated
P	The samples are IN COMPLIANCE with the requirement of this subclause	NPR	Not Present
NA	Not Applicable	PR	Present
NR	Not Requested	R	Refer to the Comment Section



Test Report

1. MECHANICAL & PHYSICAL PROPERTIES (EN71-1:2005 and Amendment A6:2008)

RESULTS:

SUBCLAUSE	REQUIREMENT	RESULT
4	GENERAL REQUIREMENTS	P
4.1	Material	P
4.2	Assembly	NA
4.3	Flexible plastic sheeting	NA
4.4	Toy Bags	NA
4.5	Glass	NA
4.6	Expanding materials	NA
4.7	Edges	P
4.8	Points and metallic wires	P
4.9	Protruding parts	P
4.10	Parts moving against each other	NA
4.11	Mouth actuated toys	NA
4.12	Balloons	NA
4.13	Cords of toy kites and other flying toys	NA
4.14	Enclosures	NA
4.15	Toys intended to bear the mass of a child	NA
4.16	Heavy immobile toys	NA
4.17	Projectiles	NA
4.18	Aquatic toys	NA
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	NA
4.20	Acoustics	NA
4.21	Toys containing a non-electrical heat source	NA
4.22	Small balls	P
5	TOYS INTENDED FOR CHILDREN UNDER 36 MONTHS	NA
6	PACKAGING	NA



Test Report

SUBCLAUSE	REQUIREMENT	RESULT
7	WARNINGS AND INSTRUCTIONS FOR USE	P
7.1	General	P
7.2	Toys not intended for children under 36 months	P
7.3	Latex balloons	NA
7.4	Aquatic toys	NA
7.5	Functional toys	NA
7.6	Hazardous sharp functional edges and points	NA
7.7	Projectiles	NA
7.8	Imitation protective masks and helmets	NA
7.9	Toy kites	NA
7.10	Roller skates, inline skates and toy skateboards	NA
7.11	Toys intended to be strung across a cradle, cot, or perambulator	NA
7.12	Liquid-filled teethers	NA
7.13	Percussion caps specifically designed for use in toys	NA
7.14	Acoustics	NA
7.15	Toy bicycles	NA
7.16	Toys intended to bear the mass of a child	NA
7.17	Toys comprising monofilament fibres	NA
7.18	Toy scooters	NA

2. FLAMMABILITY PROPERTIES (EN71-2:2006 and Amendment A1:2007)

RESULTS:

SUBCLAUSE	REQUIREMENT	RESULT
4	REQUIREMENTS	P
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 child in play	NA
4.4	Toys intended to be entered by a child	NA
4.5	Soft-filled toys with a piled or textile surface	NA



Test Report

IDENTIFICATION PARTS			
No.	Description	Position	Color
1	Polymeric material	Mirror	Acrylic mirror 1.5mm (EN71 part 3 transfer from ICQHK 09-9-3)
2	Polymeric material	Joints on puzzle	Beige
3	Textile material	Houses	107 yellow felt (EN71 part 3 transfer from ICQG 07-2304-2)
4	Textile material	Houses	1375 orange felt (EN71 part 3 transfer from ICQG 07-2304-8)
5	Textile material	Houses/boy	485 red felt (EN71 part 3 transfer from ICQG 07-2304-13)
6	Textile material	Boy/girl	White elastic 2mm cord (EN71 part 3 transfer from ICQHK 09-8-1, total lead transfer from IISG 08-23915-1)
7	Textile material	Girl	1235 orange 4mm cord
8	Textile material	Car	Red 2mm cord
9	Textile material	Box	Red elastic 2mm cord
10	Textile material	Boy/girl	White 3mm cord
11	Textile material	Mirror	279 blue thread
12	Textile material	Houses	Rubin red felt
13	Coating material	Puzzle	1375 orange varnish (EN71 part 3 transfer from ICQG 08-3294-9, total lead transfer from IISG 08-23915-9)
14	Coating material	Puzzle	107 yellow varnish (EN71 part 3 transfer from ICQG 08-6435-6)
15	Coating material	Puzzle	1235 lt. orange varnish (EN71 part 3 transfer from ICQG 08-6435-7)
16	Coating material	Puzzle	368 green varnish (EN71 part 3 transfer from ICQG 08-6435-11)
17	Coating material	Puzzle	White varnish (EN71 part 3 transfer from ICQG 08-6435-14, total lead transfer from IISG 08-23915-17)
18	Coating material	Puzzle	375 light green varnish (total lead transfer from IISG 08-23906-7)
19	Coating material	Puzzle	Transparent varnish (total lead transfer from IISG 08-23906-21)
20	Coating material	Box	Multicolor film coating
21	Coating material	Puzzle	135 cream varnish
22	Coating material	Puzzle	223 pink varnish
23	Coating material	Puzzle	2717 light blue varnish
24	Coating material	Puzzle	2736 dark blue varnish
25	Coating material (See Note)	Puzzle	483 brown varnish
26	Coating material	Puzzle	279 blue varnish
27	Coating material	Puzzle	485 red varnish
28	Other material	Puzzle/box	Light brown wood
29	Coating material	Puzzle	Deep cherry pink varnish



Test Report

RESULTS:

3. Migration of certain elements

Method: European Standard EN 71- 3: 1994 + A1:2000 + AC:2002

Instrument: ICP-Plasma Spectrometer

Principle: The soluble elements are extracted by hydrochloric acid 0.07N and determined spectrometrically

Parts	mg	Pb	Cd	Cr	Ba	Sb	As	Se	Hg
1		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
3		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
5		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
6		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
7		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
8		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
9		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
11		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
12		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
13		< 10	< 10	< 10	15	< 10	< 10	< 10	< 10
14	56.7	< 10	< 10	< 10	81	< 10	< 10	< 10	< 10
15		< 10	< 10	< 10	61	< 10	< 10	< 10	< 10
16		< 10	< 10	< 10	56	< 10	< 10	< 10	< 10
17		< 10	< 10	< 10	184	< 10	< 10	< 10	< 10
18		< 10	< 10	< 10	330	< 10	< 10	< 10	< 10
19	63.7	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
20	87.8	< 10	< 10	< 10	128	< 10	< 10	< 10	< 10
21		< 10	< 10	< 10	112	< 10	< 10	< 10	< 10
22		< 10	< 10	< 10	400	< 10	< 10	< 10	< 10
23	17.0	< 10	< 10	< 10	58	< 10	< 10	< 10	< 10
24		< 10	< 10	< 10	74	< 10	< 10	< 10	< 10
26	51.0	< 10	< 10	< 10	191	< 10	< 10	< 10	< 10
27	72.6	< 10	< 10	< 10	240	< 10	< 10	< 10	< 10
28		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
29	26.5	< 10	< 10	< 10	16	< 10	< 10	< 10	< 10
Limits		90	75	60	1000	60	25	500	60



Test Report

Note: The results expressed are in mg/kg. The symbol < followed by a number indicates that the concentration of the element is less than the detection limit expressed by that number. The value in mg following a part indicates the part quantity used for the test. It is indicated only if the part present in the sample is less than 100 mg (See EN 71/3 - Par. 10) The elements determined are: Pb - Soluble Lead; Cr - Soluble Chromium; Hg - Soluble Mercury; Sb - Soluble Antimony; Cd - Soluble Cadmium; Ba - Soluble Barium; Se - Soluble Selenium; As - Soluble Arsenic.

The following coatings were insufficient to form testing material of 10 mg; hence, they were not tested in accordance with the Standard:

Puzzle: 483 brown varnish

*******END OF TEST REPORT*******