



Product Technology Service

Report No.: TS2012051209-1

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Test Report

Testing institute : Product Technology Service (Ningbo) Co., Ltd.
6&7F, 59#, Huayu Road,
Yinzhou District, Ningbo 315192 P.R. China

Applicant : Dilemma Games Ltd.
Punna, A506, Nimanheamin soi 6 road, T. Suthep, A. Muang, Chiang Mai,
Thailand, 50200

Buyer : Dilemma Games Ltd.

Test item(s) : Wooden puzzles and games

Model/type : /

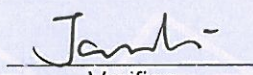
Sample Description : /

Sample receive date : May 18, 2012
Completes date : May 18, 2012

Testing location : Product Technology Service (Ningbo) Co., Ltd.

Test specification(s) : 1. GB 6675: 2003 + No.1 Revision Notice: 2005
Excluding Clause A.4.4&A.4.5,
Excluding Labeling Requirement of Clause A.C.2.2, A.C.2.3, A.C.2.5&A.C.4
2. GB 6675-2003+No.1 Revision Notice: 2005: Appendix C: Migration of
certain elements


Originator:
Della Wang


Verifier:
Jason Li



Ningbo, Jun-06, 2012

The test results exclusively refer to the samples examined. This report shall not be reproduced except in full without written approval and does not authorize the use of Product Technology Service (Ningbo) Co., Ltd. label. The report is invalid without signature and seal of Product Technology Service (Ningbo) Co., Ltd.

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Test item(s)

No.	Name	Part No.	Part Name
1	Wooden puzzles and games -- Pyramid 2 pcs, IQ501/ Pyramid 7 pcs.-with base, IQ505/ Fancy Pyramid- with base, IQ507/ Pento Chess Puzzle- with wooden lid , IQ952/ Zoo Puzzle, IQ777/ Barrel Puzzle , IQ122/ Burr Puzzle , IQ125/ Diamond Cube (4), (6) , IQ124/ Soma Cube 3D - (M)- with cover , IQ105/ Fancy Snake Cube , IQ319/ Anaconda(M) , IQ320A/ Mission Impossible-with cover , IQ412/ 3D Cube 25 pcs (2)- with cover , IQ411/ Square in X , IQ901/ Master Logic , IQ211/ Crazy Loops!!! , IQ905/ The Gordian Tie , IQ852/ The Rat Trap, Wooden base- no base , IQ867/ Lord of the Rings-(2 versions)- no base , IQ869/ Release My Mouse , IQ876/ Snake Under Pressure!!! , IQ420/ Tricky Pencil , IQ904/ Traffic Light , IQ305/ Switch 8- with case , IQ303/ Hanoi Tower (7 rings) , IQ301/ Rubber Band , IQ903/ Star Puzzle(L) , IQ113/ Burr Puzzle 2 (mixed timber) , IQ139/ The Rolling Ball , IQ143/ Global Puzzle , IQ151/ Escape-21 playthings-no cover , IQ309/ David Star , IQ334/ Locked Sticks , IQ160/ Othello (Reversi)- with cover , IQ216A/ The Bermuda Triangle , IQ408A/ Matching Wheels- with cover , IQ406/ Color Sudoku-puzzle pieces , IQ428/ 4 T Puzzle , IQ114	1-1	Wood
		1-2	Manual
		1-3	Wood round bead
		1-4	Square wood --Black coating
		1-5	Green coating
		1-6	Blue coating
		1-7	Red coating
		1-8	Yellow coating
		1-9	Pink coating
		1-10	Dark blue coating
		1-11	Black coating
		1-12	Color braided rope
		1-13	Yellow rope
		1-14	Blue rope
		1-15	Red rope
		1-16	Green rope
		1-17	White rope
		1-18	Cream-colored elastic rope
		1-19	Scarlet rope
		1-20	Orange rope
		1-21	Dark red coating
		1-22	White coating

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1. GB 6675: 2003 + No.1 Revision Notice: 2005

Test specification	:	GB 6675: 2003 + No.1 Revision Notice: 2005 Excluding Clause A.4.4&A.4.5, Excluding Labeling Requirement of Clause A.C.2.2,A.C.2.3,A C.2.5&A.C.4
Test item	:	See below
Requirement	:	See below
Labeled age grading:	:	Not stated
Applicant's specified age group for testing:	:	3+ years
Age grading for test:	:	Over 3 years

Test Results

Clause	Assessment
A .4.Requirements	
A.4.1 Normal use	<u>Pass</u>
A.4.2 Reasonably foreseeable abuse	<u>Pass</u>
A.4.3 Material	<u>Pass</u>
A.4.4 Small parts	<u>See Remark 1</u>
A.4.5 Shape, size and strength of certain toys	<u>See Remark 2</u>
A.4.6 Edges	<u>Pass</u>
A.4.7 Points	<u>Pass</u>
A.4.13 Holes, clearances and accessibility of mechanisms	<u>Pass</u>

Annex B Flammability

B.4 Requirement	<u>Pass</u>
B.4.1 General	<u>Pass</u>

Annex A .C Safety-labeling guidelines and manufacturer's makings

A.C.2.2 Age grading	<u>See Remark 3</u>
A.C.2.3 Small toys and toys containing small parts	<u>See Remark 1</u>
A.C.2.5 Small balls and marbles	<u>See Remark 2</u>

A.C.4 Manufacturer's Markings

See Remark 4



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Remark:

- 1: The applicant certified that they would print the warning statement and symbol as specified in A.C.2.3 of GB 6675: 2003 + No.1 Revision Notice: 2005 on the product or its packaging.
- 2: The applicant certified that they would print the warning statement and symbol as specified in A.C.2.5 of GB 6675: 2003 + No.1 Revision Notice: 2005 on the product or its packaging.
- 3: The toy or package should indicate the minimum age for intended use.
- 4: The attention of the applicant was drawn to the need for the item to be marked with the (name and address) of the manufacturer or the distributor, or with a trademark and/or mark on the principal component of the toy, the packaging, the label or leaflet accompanying the toy.

N.B. : Only applicable clauses were shown.

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2.GB 6675–2003+No.1 Revision Notice: 2005: Appendix C: Migration of certain elements

Test method	:	GB 6675–2003+No.1 Revision Notice: 2005: Appendix C: Migration of certain elements
Test item	:	See below
Requirement	:	See below

Test Results

Clause	Assessment
8.1 For coatings of paint, varnish, lacquer, printing ink and similar coatings	<u>Pass</u>
8.2 For Polymeric and similar materials including laminates, whether reinforced textiles or not, but excluding other textiles	<u>NA</u>
8.3 For Paper and paper board (maximum mass per unit area of 400 g/m ²)	<u>Pass</u>
8.4 For Textiles, whether natural or synthetic	<u>Pass</u>
8.5 For Glass, ceramic, metallic materials ,excluding soldering for electrical continuity	<u>NA</u>
8.6 For other materials, whether mass colored or not)	<u>Pass</u>
8.7 For Materials intended to leave a trace	<u>NA</u>
8.8 For Pliable modelling materials , including modelling clays, and gels	<u>NA</u>
8.9 For Paints, including, varnishes, lacquers, glazing powders and similar materials in solid or in liquid form	<u>NA</u>

GB 6675–2003+No.1 Revision Notice: 2005: Appendix C is only applicable for toys or parts of toys - under consideration of a foreseeable and reasonable use - which based on their function, mass, height or other properties will be put into the child's mouth or if there is a foreseeable possibility of sucking and swallowing toys or part of toys.

Analysis results:

As per European Standard on Safety of Toys GB 6675–2003+No.1 Revision Notice: 2005: Appendix C, soluble toxic element contents are determined by Inductively Coupled Plasma – Optical Emission Spectrometry.

Detection limit: 2mg/kg for each of the 8 toxic elements

Test item(s) No.	Testing element	Sol. Sb	Sol. As	Sol. Ba	Sol. Cd	Sol. Cr	Sol. Pb	Sol. Hg	Sol. Se	Conclusion
	Requirement [mg/kg]	60	25	1000	75	60	90	60	500	
1-1	--	<2	<2	<2	<2	<2	<2	<2	<2	Pass
1-2	--	<2	<2	<2	<2	<2	<2	<2	<2	Pass
1-3	--	<2	<2	<2	<2	<2	<2	<2	<2	Pass
1-4@	--	<2	<2	<2	<2	<2	<2	<2	<2	Pass
1-5@	--	<2	<2	<2	<2	<2	<2	<2	<2	Pass
1-6@	--	<2	<2	<2	<2	<2	<2	<2	<2	Pass
1-7@	--	<2	<2	<2	<2	<2	<2	<2	<2	Pass
1-8@	--	<2	<2	12	<2	<2	<2	<2	<2	Pass
1-9@	--	<2	<2	<2	<2	<2	<2	<2	<2	Pass
1-10@	--	<2	<2	<2	<2	<2	<2	<2	<2	Pass
1-11@	--	<2	<2	<2	<2	<2	<2	<2	<2	Pass
1-12	--	<2	<2	<2	<2	<2	<2	<2	<2	Pass
1-13	--	<2	<2	<2	<2	<2	<2	<2	<2	Pass
1-14	--	<2	<2	<2	<2	<2	<2	<2	<2	Pass
1-15	--	<2	<2	<2	<2	<2	<2	<2	<2	Pass
1-16	--	<2	<2	<2	<2	<2	<2	<2	<2	Pass
1-17	--	<2	<2	<2	<2	<2	<2	<2	<2	Pass
1-18	--	<2	<2	<2	<2	<2	<2	<2	<2	Pass
1-19	--	<2	<2	<2	<2	<2	<2	<2	<2	Pass
1-20	--	<2	<2	<2	<2	<2	<2	<2	<2	Pass
1-21@	--	<2	<2	<2	<2	<2	<2	<2	<2	Pass
1-22@	--	<2	<2	<2	<2	<2	<2	<2	<2	Pass



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Remark:

* = The analytical results were adjusted by subtracting analytical correction factor

< = Less than

mg/kg = Milligram per kilogram based on dry weight

Sol. = Soluble

@ = The test result was calculated as if 100 mg of test portion had been used and the sample weight of test portion is less than 100 mg

Main test instruments used for this method:

Instrument	Manufactory	Model / Type
ICP-OES	PerkinElmer	2100DV

Sample photo(s), see annex 1

---END---

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ANNEX 1

Sample photos, Consists of 16 pages



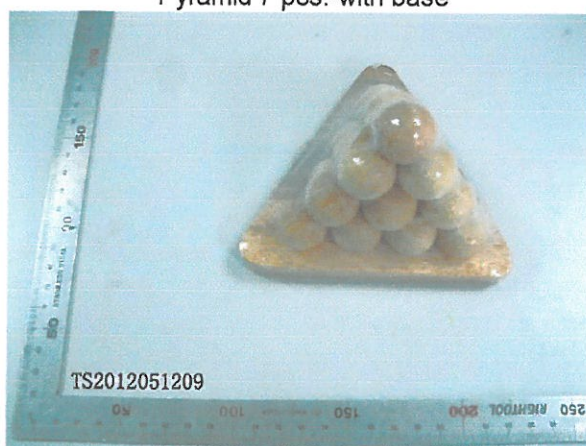
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Pyramid 2 pcs



Pyramid 7 pcs.-with base



Fancy Pyramid- with base

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Pento Chess Puzzle- with wooden lid



Zoo Puzzle



Barrel Puzzle



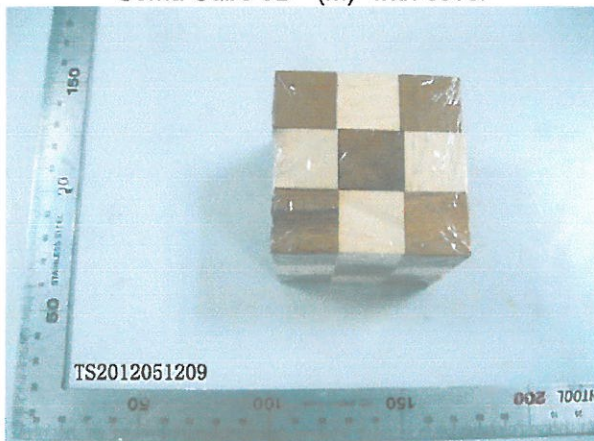
Burr Puzzle



Diamond Cube (4), (6)



Soma Cube 3D - (M)- with cover



Fancy Snake Cube



Anaconda(M)



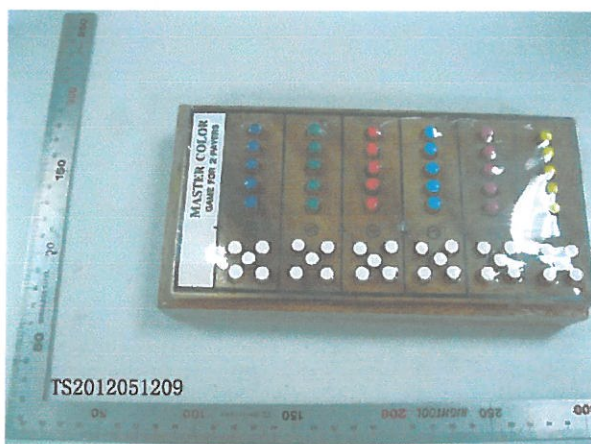
Mission Impossible-with cover



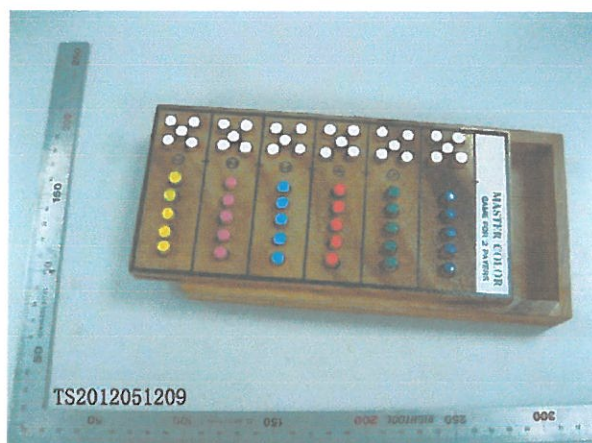
3D Cube 25 pcs (2)- with cover



Square in X



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Master Logic



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Crazy Loops!!!



The Gordian Tie



The Rat Trap, Wooden base- no base



Lord of the Rings-(2 versions)- no base



Release My Mouse



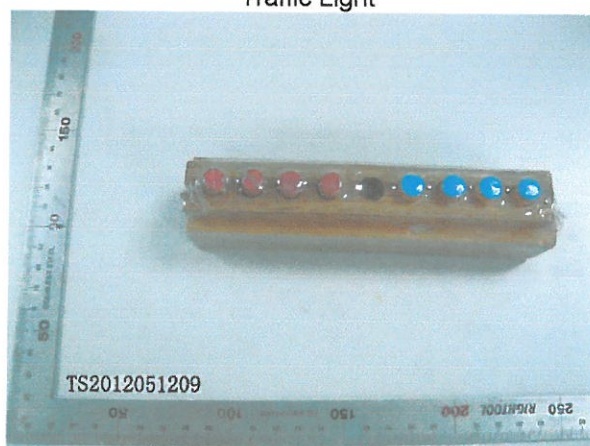
Snake Under Pressure!!!



Tricky Pencil



Traffic Light



Switch 8- with case



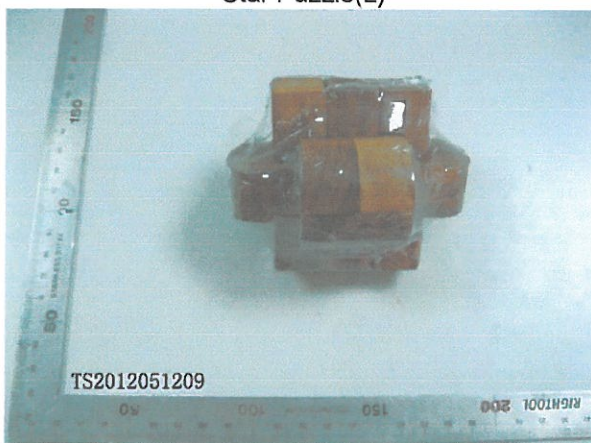
Hanoi Tower (7 rings)



Rubber Band



Star Puzzle(L)



Burr Puzzle 2 (mixed timber)



The Rolling Ball



Global Puzzle



Escape-21 playthings- no cover



David Star



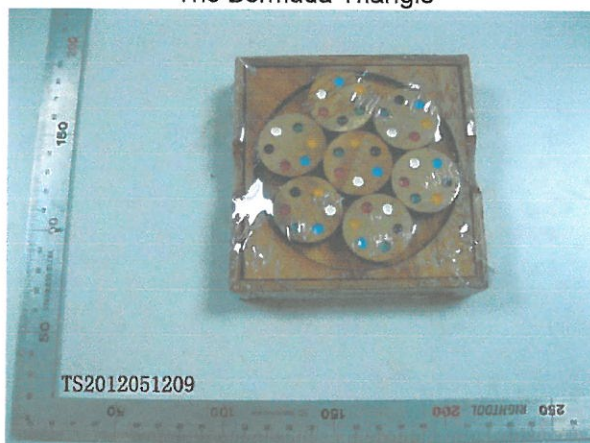
Locked Sticks



Othello (Reversi)- with cover



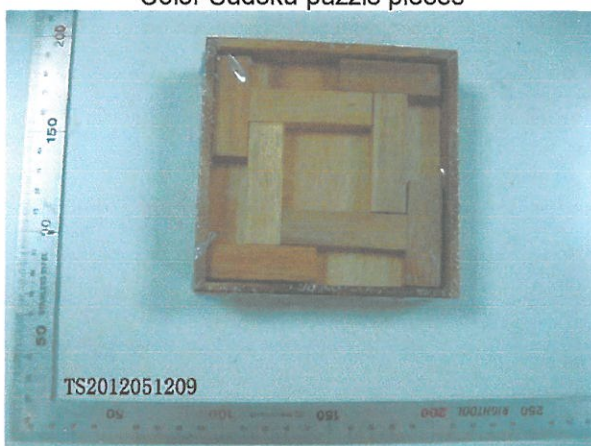
The Bermuda Triangle



Matching Wheels- with cover



Color Sudoku-puzzle pieces



4 T Puzzle