

Test Report No. : Q00025167a 001

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Client: ENDLESS GAMES INC

920 Highway 33, Building 7, Unit 5 Freehold NJ 07728

Test Item(s): Toys

**Identification/
Model No(s):** KISMET DICE GAME

Sample Receiving date: 14 Apr 2010
20 Apr 2010
21 Apr 2010

Delivery condition: Apparent good, Samples tested as received

Test Specification:

1. ASTM F963-08: Mechanical & physical
2. ASTM F963-08: Flammability on solids and soft toys
3. ASTM F963-08 and CPSIA Sect 101: Total lead content in paint and coating materials
4. CPSIA Sect 101: Total lead content in substrate materials
5. ASTM F963-08: Soluble heavy metals
6. CPSIA Sect 108: Phthalates
7. CPSIA Sect 103: Tracking label
8. Packaging waste - Toxic in Packaging Clearinghouse (TPCH) - Model Toxics in Packaging Legislation as revised by Dec 2008, "formerly governed organization - CONEG"

Test Result:

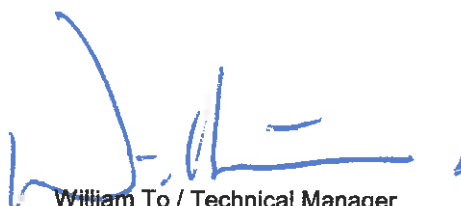
PASS
PASS
PASS
PASS
PASS
PASS
PASS
PASS

Other Information:

The labelled age grade of the item(s) : Age 7+
The appropriate age grade of the item(s) : For age 7 years and up
The item(s) was/were tested for the age of over 7 years.

For and on behalf of
TÜV Rheinland (Hong Kong) Ltd.

04 May 2010
Date



William To / Technical Manager
Name / Position

*Test result is drawn according to the kind and extent of tests performed.
This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.*

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Material List

Item: KISMET DICE GAME

Material No.	Material	Color	Location
M001	Whole Product	Multi-color	Whole product
M002	Coating	Black	Dice
M003	Coating	Red	Dice
M004	Coating	Green	Dice
M005	Plastic	White	Dice
M006	Plastic	Black	Cup
M007	Plastic + printing + paper + adhesive	Transparent laminated paper sticker with printing	Wrapper on cup
M009	Graphite	Grey	Core of pencil
M010	Paper + printing + adhesive	White paper with black printing	Score sheet and instruction
M011	Coating	Multi-color	Box (Packaging)
M012	Plastic	Transparent	Window of box and blister (Packaging)
M013	Plastic with adhesive	Transparent adhesive tape	Box (Packaging)
M014	Plastic with adhesive	Round transparent adhesive tape	Box (Packaging)
M015	Paper with adhesive	White paper card	Box (Packaging)
M016	Paper	White/grey paper card	Box (Packaging)



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1. ASTM F963-08 Physical & Mechanical tests

Testing Period: 22 Apr. 2010 - 30 Apr. 2010

4. Safety requirements	
4.1 Material Quality (visual check)	PASS
4.7 Accessible edges	PASS
4.9 Accessible points	PASS

5. Labeling requirements	
5.2 Age grading labeling	PASS
5.16 Promotional materials	PASS

6. Instructional literature	
6.1 Definition and description	PASS

7. Producer's markings	
7.1 Name and address of the producer or the distributor	PASS



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2. ASTM F963-08: Flammability on solids and soft toys

Testing Period: 22 Apr. 2010 - 30 Apr. 2010

4.2 Flammability on solids and soft toys	PASS
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The burning rate of the most severe part = **IBE**

Note: Maximum permissible burning rate = 0.1 Inch/sec.

Abbreviation: **IBE** denotes Ignite But Self-extinguish



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3. ASTM F963-08 and CPSIA Sect 101: Total lead content in Paint and coating materials

Testing Period: 22 Apr. 2010 - 27 Apr. 2010

ASTM F963-08 Sect 4.3.5.1	Total lead content in paint and coating materials	PASS
CPSIA Sect 101	Total lead content in paint and coating materials	PASS

Test method: Sample was digested with acid and the toxic elements were analysed by Inductively coupled plasma - Optical emission spectrophotometer or Atomic Absorption Spectrophotometer. (QMA 36.035.05 HKG - Hot plate method, With ref. to EPA 3050B, Microwave assisted digestion method, CPSC-CH-E1001-08 microwave method, CPSC-CH-E1002-08 and CPSC-CH-E1003-09)

Test result:

Test No.	Material No.	Lead content (ppm)
		MDL : 10 ppm
T001	M002,M003,M004	n.d.

Abbreviation: n.d. = Not Detected (< MDL)
 MDL = Method Detection Limit
 ppm denotes parts per million

Remark:

Requirement according to Consumer Product Safety Improvement Act 2008, section 101, is summarized below:

Effective Date	Maximum Permissible Limit Lead in paint and similar surface coating
1 year after enactment/ 14 Aug 2009	90 ppm



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4. CPSIA Sect 101: Total lead content in substrate materials

Testing Period: 22 Apr. 2010 - 28 Apr. 2010

CPSIA Sect 101	Total lead content in substrate materials	PASS
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Test method: Sample was digested with acid and the toxic elements were analysed by Inductively coupled plasma - Optical emission spectrophotometer or Atomic Absorption Spectrophotometer. (QMA 36.035.05 HKG - Hot plate method, With ref. to EPA 3050B, Microwave assisted digestion method, CPSC-CH-E1001-08 microwave method, CPSC-CH-E1002-08 and CPSC-CH-E1003-09)

Test result:

Test No.	Material No.	Lead content (ppm)
		MDL : 10 ppm
T001	M005,M006	n.d.
T002	M007	n.d.
T003	M009	13
T004	M010	n.d.

Abbreviation: n.d. = Not Detected (< MDL)
 MDL = Method Detection Limit
 ppm denotes parts per million

Remark:

According to Consumer Product Safety Commission, exemptions for lead as used in certain parts of children's electronic devices, for lead used :

- a) as an alloying element in steel, the maximum amount of lead shall be less than 0.35% by weight (3,500 ppm);
- b) in the manufacture of aluminum, the maximum amount of lead shall be less than 0.4% by weight (4,000 ppm);
- c) in copper-based alloys, the maximum amount of lead shall be less than 4% by weight (40,000 ppm).

Requirement according to Consumer Product Safety Improvement Act 2008, section 101, is summarized below:

Effective Date	Maximum Permissible Limit Lead in accessible substrate materials
180 days after enactment/10 Feb 2009	600 ppm
1 year after enactment/ 14 Aug 2009	300 ppm
3 years after enactment/14 Aug 2011	100 ppm



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5. ASTM F963-08: Soluble Heavy Metals

Testing Period: 22 Apr. 2010 - 27 Apr. 2010

ASTM F963-08 Sect 4.3.5.2	Soluble heavy metals	PASS
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Test method: Determination of heavy metal on paint and similar surface coating material according to ASTM F963-08 (QMA 36.035.25 HKG)

This requirement applies to the coating which can be scraped off and the sample weight is greater than 10 mg

Test result:

Test No	Material No.	[mg/kg]							
		Sb	As	Ba	Cd	Cr	Pb	Hg	Se
		Maximum Permissible Limit							
		60	25	1000	75	60	90	60	500
MDL									
		2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
T001	M002(*1)(20mg)	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
T002	M003(*1)(21mg)	n.d.	n.d.	317.6	n.d.	n.d.	n.d.	n.d.	n.d.
T003	M004(*1)(20mg)	n.d.	n.d.	285.1	n.d.	n.d.	n.d.	n.d.	n.d.

 Abbreviation: n.d. = Not Detected (< MDL)
 MDL = Method Detection Limit
 mg/kg denotes milligram per kilogram

Remark:

*1 The weight of test portion marked (*1) available was less than 100mg, but greater than 10mg, so results were calculated as if 100mg of the sample were available.



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6. CPSIA Sect 108 : Phthalates

Testing Period: 22 Apr. 2010 - 27 Apr. 2010

CPSIA Sect 108	Phthalates	PASS
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Test Method: Organic solvent extraction, analyzed by GCMS (QMA 36.035.13 HKG)

Test Result:

Test No.			T001	T002	T003
Material No.			M002,M003,M004	M005,M006	M007
Parameter	MDL	Unit	Result	Result	Result
Dibutyl phthalate (DBP)	0.005	%	n.d.	n.d.	n.d.
Benzylbutyl phthalate (BBP)	0.005	%	n.d.	n.d.	n.d.
Diethylhexyl phthalate (DEHP)	0.005	%	n.d.	n.d.	n.d.
Di-n-octyl phthalate (DNOP)	0.005	%	n.d.	n.d.	n.d.
Diisodecyl phthalate (DIDP)	0.005	%	n.d.	n.d.	n.d.
Diisononyl phthalate (DINP)	0.005	%	n.d.	n.d.	n.d.
Summary		Pass/Fail	Pass	Pass	Pass

Test No.			T004
Material No.			M010
Parameter	MDL	Unit	Result
Dibutyl phthalate (DBP)	0.005	%	n.d.
Benzylbutyl phthalate (BBP)	0.005	%	n.d.
Diethylhexyl phthalate (DEHP)	0.005	%	n.d.
Di-n-octyl phthalate (DNOP)	0.005	%	n.d.
Diisodecyl phthalate (DIDP)	0.005	%	n.d.
Diisononyl phthalate (DINP)	0.005	%	n.d.
Summary		Pass/Fail	Pass

Abbreviation n.d. = Not Detected (< MDL)
 MDL = Method Detection Limit
 % denotes percentage



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Remark:

Requirement according to Consumer Product Safety Improvement Act 2008, section 108, is summarized below:

Date of Implementation	Parameter	Unit	Maximum Permissible Limit
180 days after the date of enactment/10 Feb 2009	Any children's toy or childcare article:		
	Dibutyl phthalate (DBP), Benzylbutyl phthalate (BBP) or Diethylhexyl phthalate (DEHP)	%	0.1
	Any children's toy that can be placed in a child's mouth or childcare article:		
	Di-n-octyl phthalate (DNOP), Diisodecyl phthalate (DIDP) or Diisononyl phthalate (DINP)	%	0.1



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#7. CPSIA Sect 103: Tracking label

Testing Period: 22 Apr. 2010 - 30 Apr. 2010

Tracking Label	PASS(*)
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Remark:

* Although no final packaging has been received, the manufacturer/trader/applicant has confirmed that the above information marked (*) will be shown onto the packaging or instruction sheet and the toy itself.

The test is not covered by DAP accreditation.



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#8. Packaging waste

Test Method: Sample was digested with acid and the toxic elements were analyzed by ICP-OES (QMA 36.035.55HKG)
For Cr (VI) - IEC 62321 Ed.,1, 2008 (QMA 36.035.12HKG)

Testing Period: 22 Apr. 2010 - 27 Apr. 2010

Test Result:

Test No.	Material No.	Heavy metal content (mg/kg)					Result
		MDL (mg/kg)					
		10	10	10	10	10	
		Pb	Cd	Cr [^]	Cr(VI)	Hg	
T001	M011	n.d.	n.d.	n.d.	-	n.d.	Pass
T002	M012	n.d.	n.d.	n.d.	-	n.d.	Pass
T003	M013	n.d.	n.d.	n.d.	-	n.d.	Pass
T004	M014	n.d.	n.d.	n.d.	-	n.d.	Pass
T005	M015	n.d.	n.d.	n.d.	-	n.d.	Pass
T006	M016	n.d.	n.d.	n.d.	-	n.d.	Pass

Abbreviation: n.d. = Not Detected (< MDL)
MDL = Method Detection Limit
Pass denotes the sum of 4 elements is less than or equal to 100 mg/kg.
mg/kg denotes milligram per kilogram

Remark:

According to the US Toxic in Packaging Clearinghouse (TPCH) - Model Toxics in Packaging Legislation, revised as Dec 2008; the maximum permissible limit of the sum of the concentration of Lead, Cadmium, Mercury and Hexavalent Chromium is 100ppm. For recycled materials, the maximum permissible limit for the 4 regulated metals is 200ppm.

[^] Screening of total chromium is performed. If the result is in the inconclusive region, chromium VI content will be confirmed by IEC 62321, Ed 1: 2008 Annex.

The test is not covered by DAP accreditation.

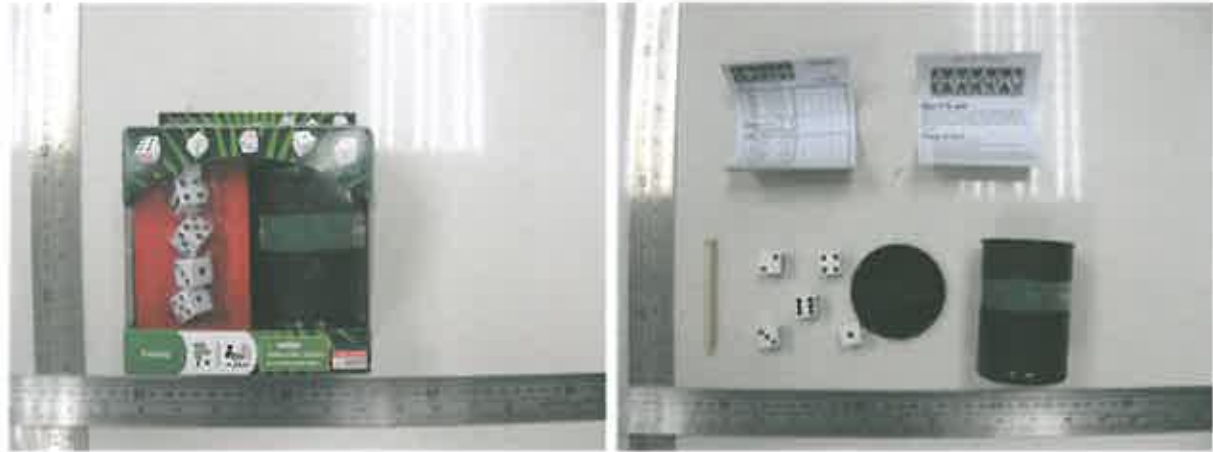
Testing Laboratory accredited by DAP according to DIN EN ISO/IEC 17025. The accreditation is valid for the test methods stated in the certificate.



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Sample photos:



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