



Hong Kong Government Recognized Service Supplier
Approved Laboratory of The Woolmark Company

Members of :
American National Standards Institute
American Society for Testing and Materials
British Standards Institute

Hong Kong Association for Testing, Inspection and Certification Limited
Hong Kong Toys Council

TEST REPORT

NUMBER: HKGH00712300

APPLICANT: On file

DATE: Jun 26, 2008

SAMPLE DESCRIPTION:

THREE (3) SETS OF SUBMITTED SAMPLE SAID TO BE :
ITEM NAME : ILLUMINATED TOUCH SCREEN WORD (LCD) GAME.
ITEM NO. : 20780.
LABELLED AGE GROUP : 8+.
PACKAGING PROVIDED BY : YES.
APPLICANT
VENDOR : BEST TIME.
COUNTRY OF ORIGIN : CHINA PRC.

TESTS CONDUCTED:

AS REQUESTED BY THE APPLICANT, FOR DETAILS REFER TO ATTACHED PAGE(S)

CONCLUSION:

<u>TESTED SAMPLES</u>	<u>STANDARD - U.S. ASTM F963-07^{e1}</u>	<u>RESULT</u>
SUBMITTED SAMPLE SETS	PHYSICAL AND MECHANICAL TESTS	PASS
	FLAMMABILITY TEST OF MATERIALS OTHER THAN TEXTILE MATERIALS	PASS

COATINGS OF SUBMITTED SAMPLE SETS	TOXIC ELEMENTS TEST	PASS
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FOR AND ON BEHALF OF :
INTERTEK TESTING SERVICES HK LTD.

KAREN S.C. NG
GENERAL MANAGER





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TESTS CONDUCTED

1 PHYSICAL AND MECHANICAL TESTS

AS PER ASTM STANDARD CONSUMER SAFETY SPECIFICATION FOR TOY SAFETY F963-07^{c1}.

APPLICANT'S SPECIFIED AGE GROUP FOR TESTING :
FOR AGES OVER 8 YEARS.

<u>SECTION</u>	<u>TESTING ITEMS</u>	<u>ASSESSMENT</u>
4.1	MATERIAL QUALITY (VISUAL CHECK ON CLEANINGLESS)	P
4.5	SOUND-PRODUCING TOYS	P
4.6.1	TOYS INTENDED FOR CHILDREN UNDER 36 MONTHS (SMALL OBJECTS)	NA
4.6.2	MOUTH-ACTUATED TOYS	NA
4.6.3	TOYS AND GAMES FOR 36 MONTHS TO 72 MONTHS (SMALL PART WARNING)	NA
4.7	ACCESSIBLE EDGES	NA
4.8	PROJECTIONS	NA
4.9	ACCESSIBLE POINTS	NA
4.10	WIRES OR RODS	NA
4.11	NAILS AND FASTENERS	NA
4.12	PACKAGING FILM	NA
4.13	FOLDING MECHANISMS AND HINGES	NA
4.14	CORDS AND ELASTICS	NA
4.15	STABILITY AND OVER-LOAD REQUIREMENTS	NA
4.16	CONFINED SPACES	NA
4.17	WHEELS, TIRES AND AXLES	NA
4.18	HOLES, CLEARANCE, AND ACCESSIBILITY OF MECHANISMS	NA
4.19	SIMULATED PROTECTIVE DEVICES, SUCH AS HELMETS, HATS AND GOGGLES	NA
4.20	PACIFIERS	NA
4.21	PROJECTILE TOYS	NA
4.22	TEETHERS AND TEETHING TOYS	NA
4.23	RATTLES	NA
4.24	SQUEEZE TOYS	NA
4.25	BATTERY-OPERATED TOYS	P
4.26	TOYS INTENDED TO BE ATTACHED TO A CRIB OR PLAYPEN	NA



PAGE 2 OF 6

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<u>SECTION</u>	<u>TESTING ITEMS</u>	<u>ASSESSMENT</u>
4.27	TOY CHESTS	NA
4.28	STUFFED AND BEANBAG-TYPE TOYS	NA
4.29	STROLLER AND CARRIAGE TOYS	NA
4.30	ART MATERIALS	NA
4.31	TOY GUN MARKING	NA
4.32	BALLOONS	NA
4.33	CERTAIN TOYS WITH SPHERICAL ENDS	NA
4.34	MARBLES	NA
4.35	BALLS	NA
4.36	POMPOMS	NA
4.37	HEMISPHERIC-SHAPED OBJECTS	NA
4.38	YOYO ELASTIC TETHER TOYS	NA
4.39	MAGNETS	NA
5	LABELLING REQUIREMENT	P
6	INSTRUCTIONAL LITERATURE	P
7	PRODUCER'S MARKINGS	
	- NAME OF PRODUCER/DISTRIBUTOR (PACKAGE)	YES
	- ADDRESS (PACKAGE)	YES

REMARK : THE SUBMITTED SAMPLES WERE UNDERGONE THE TESTS IN ACCORDANCE WITH SECTION 8.5 THROUGH SECTION 8.18 AND 8.20 THROUGH 8.25 ON NORMAL USE, ABUSE AND SPECIFIC TESTS FOR DIFFERENT TYPES OF TOYS WHICHEVER IS APPLICABLE.

P = PASS

NA = NOT APPLICABLE

DATE SAMPLE RECEIVED : MAY 28, 2008

TESTING PERIOD : MAY 28, 2008 TO JUN 16, 2008





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2 FLAMMABILITY TEST

AS PER SECTION 4.2 OF THE ASTM STANDARD CONSUMER SAFETY SPECIFICATION ON TOY SAFETY F963-07^{e1}.

<u>SAMPLE</u>	<u>IGNITION POINT</u>	<u>BURN LENGTH (INCH)</u>	<u>TIME (SEC)</u>	<u>BURN RATE (INCH/SEC)</u>	<u>LIMIT (INCH/SEC)</u>
PEN	TIP	1.8	60	0.03	0.10

THE SUBMITTED TOY SAMPLE AND ITS ACCESSORIES WERE TESTED, THE ABOVE RESULT ONLY SHOWED THE MOST SEVERE BURN RATE OF THE SAMPLES.

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3 TOXIC ELEMENTS ANALYSIS ON GOLD COLOR COATING OF PLASTIC (BODY)

AS PER SECTION 4.3.5 OF THE ASTM STANDARD CONSUMER SAFETY SPECIFICATION ON TOY SAFETY F963-07^{e1}. ACID EXTRACTION METHOD WAS USED AND TOXIC ELEMENTS MIGRATION CONTENT WERE DETERMINED BY INDUCTIVELY COUPLED ARGON PLASMA SPECTROMETRY.

	<u>RESULT IN ppm</u>	<u>LIMIT ppm</u>
SOL. BARIUM (Ba)	<5	1000
SOL. LEAD (Pb)	<5	90
SOL. CADMIUM (Cd)	<5	75
SOL. ANTIMONY (Sb)	<5	60
SOL. SELENIUM (Se)	<5	500
SOL. CHROMIUM (Cr)	<5	60
SOL. MERCURY (Hg)	<5	60
SOL. ARSENIC (As)	<2.5	25

SOL. = SOLUBLE
< = LESS THAN
ppm = PARTS PER MILLION

THE SAMPLE WEIGHT WAS 62mg.

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4 TOTAL LEAD (Pb) CONTENT IN COATINGS (GOLD COLOR, NAVY) OF PLASTIC (BODY)

AS PER SECTION 4.3.5 OF THE ASTM STANDARD CONSUMER SAFETY SPECIFICATION ON TOY SAFETY F963-07^{e1}. ACID DIGESTION METHOD WAS USED AND TOTAL LEAD CONTENT WAS DETERMINED BY INDUCTIVELY COUPLED ARGON PLASMA SPECTROMETRY.

RESULT : 13 ppm

LIMIT : 600 ppm

ppm = PARTS PER MILLION

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5 SOLUBLE LEAD (Pb) CONTENT

AS PER CLIENT'S REQUEST, ACID EXTRACTION METHOD WAS USED AND SOLUBLE LEAD CONTENT WAS DETERMINED BY INDUCTIVELY COUPLED ARGON PLASMA SPECTROMETRY.

<u>TESTED COMPONENT</u>	<u>RESULT IN ppm</u>	<u>CLIENT'S REQUIREMENT IN ppm</u>
(1)	<5	250
(2)	<5	250
(3)	<5	250
(4)	<5	250
(5)	<5	250

ppm = PARTS PER MILLION

< = LESS THAN

TESTED COMPONENTS :

- (1) BLUE PLASTIC (BUTTON).
- (2) WHITE PLASTIC (BODY, PEN).
- (3) SILVER COLOR PLATED METAL (SCREW).
- (4) GREY PLASTIC (RESET BUTTON).
- (5) TRANSPARENT PLASTIC (SCREEN).

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END OF REPORT

