



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: HKGH00743828

APPLICANT: On file

DATE: Aug 07, 2008

SAMPLE DESCRIPTION:

THREE (3) SETS OF SUBMITTED SAMPLE SAID TO BE :

- ITEM NO./ ITEM NAME : # 30451 - ILLUMINATED BICYCLE (TOUCH SCREEN LCD GAME) - SOLITAIRE.
- # 30452 - ILLUMINATED BICYCLE (TOUCH SCREEN LCD GAME) - POKER.
- # 30453 - ILLUMINATED BICYCLE (TOUCH SCREEN LCD GAME) - FREECELL.
- # 30457 - ILLUMINATED BICYCLE (TOUCH SCREEN LCD GAME) - TRI-PEAK SOLITAIRE.
- # 30459 - ILLUMINATED BICYCLE (TOUCH SCREEN LCD GAME) - BLACK JACK.

REFERENCE NO. : 30450.
 LABELLED AGE GROUP : 8+.
 PACKAGING PROVIDED : YES.
 BY APPLICANT
 MANUFACTURER : ZHAOQING BEST TIME.
 COUNTRY OF ORIGIN : CHINA PRC.

TO BE CONTINUED

FOR AND ON BEHALF OF :
INTERTEK TESTING SERVICES HK LTD.

KAREN S.C. NG
GENERAL MANAGER





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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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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 : AGES 8 YEARS AND UP.

<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
4.27	TOY CHESTS	NA





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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</u>	<u>BURN LENGTH</u> (INCH)	<u>TIME</u> (SEC)	<u>BURN RATE</u> (INCH/SEC)	<u>LIMIT</u> (INCH/SEC)
	<u>POINT</u>				
ROD	END	1.0	60	0.02	0.10

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

DATE SAMPLE RECEIVED : JUL 25, 2008
TESTING PERIOD : JUL 25, 2008 TO AUG 01, 2008

3 TOXIC ELEMENTS ANALYSIS ON COATINGS

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

	<u>RESULT IN ppm</u>				<u>LIMIT</u>
	<u>(1)</u>	<u>(2)</u>	<u>(3)</u>	<u>(4)</u>	<u>ppm</u>
TOTAL LEAD (Pb)	<10	<10	<10	<10	600
SOL. BARIUM (Ba)	<5	20	212	<5	1000
SOL. LEAD (Pb)	<5	<5	<5	<5	90
SOL. CADMIUM (Cd)	<5	<5	<5	<5	75
SOL. ANTIMONY (Sb)	<5	<5	<5	<5	60
SOL. SELENIUM (Se)	<5	<5	<5	<5	500
SOL. CHROMIUM (Cr)	<5	<5	<5	<5	60
SOL. MERCURY (Hg)	<5	<5	<5	<5	60
SOL. ARSENIC (As)	<2.5	<2.5	<2.5	<2.5	25

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





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TESTS CONDUCTED

TESTED COMPONENTS :

- (1) DARK BLUE COATING ON PLASTIC (BODY OF #30451).
- (2) BROWN COATING ON PLASTIC (BODY OF #30452) (SAMPLE WEIGHT : 50mg).
- (3) RED COATING ON PLASTIC (BODY OF #30453) (SAMPLE WEIGHT : 45mg).
- (4) GREEN COATING ON PLASTIC (BODY OF #30457).

THE SAMPLE WEIGHT IN BRACKETS WERE FOR SOLUBLE TOXIC ELEMENTS ANALYSIS ONLY.

DATE SAMPLE RECEIVED : JUL 25, 2008
TESTING PERIOD : JUL 25, 2008 TO AUG 04, 2008

4 TOXIC ELEMENTS ANALYSIS ON BRIGHT BLUE COATING OF PLASTIC (BODY OF #30459)

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</u> <u>ppm</u>
SOL. BARIUM (Ba)	15	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 27mg.

DATE SAMPLE RECEIVED : JUL 25, 2008
TESTING PERIOD : JUL 25, 2008 TO AUG 04, 2008





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5 TOTAL LEAD (Pb) CONTENT IN COATINGS (BRIGHT BLUE / WHITE) OF PLASTIC (BODY OF #30459)

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 : LESS THAN 10ppm

LIMIT : 600ppm

ppm = PARTS PER MILLION

DATE SAMPLE RECEIVED : JUL 25, 2008

TESTING PERIOD : JUL 25, 2008 TO AUG 04, 2008

END OF REPORT

