



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: HKGH00686109

APPLICANT: On file

DATE: Apr 22, 2008

SAMPLE DESCRIPTION:

TWO (2) SETS OF SUBMITTED SAMPLE SAID TO BE :
ITEM NAME : **MAGNETIC PUZZLE CUBE.**
LABELLED AGE GROUP : NOT SPECIFIED.
PACKAGING PROVIDED BY : YES.
APPLICANT
BUYER : COMMERCE AND INDUSTRIES.
COUNTRY OF ORIGIN : CHINA.

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 PASS
OTHER THAN TEXTILE MATERIALS

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^{e1}.

APPLICANT'S SPECIFIED AGE GROUP FOR TESTING : AGES 3 YEARS AND UP.

THE SUBMITTED SAMPLES WERE UNDERGONE THE USE AND ABUSE TESTS IN ACCORDANCE WITH THE FEDERAL HAZARDOUS SUBSTANCES ACT (FHSA), TITLE 16, CODE OF FEDERAL REGULATIONS : -

| <u>TEST</u> | <u>FHSA</u> | <u>PARAMETER</u> |
|--------------|--------------------|------------------|
| IMPACT TEST | SECTION 1500.53(b) | 4 X 3.0 ft |
| TORQUE TEST | SECTION 1500.53(e) | 4 in-lbf |
| TENSION TEST | SECTION 1500.53(f) | 15 lbf |

| <u>SECTION</u> | <u>TESTING ITEMS</u> | <u>ASSESSMENT</u> |
|----------------|---|-------------------|
| 4.1 | MATERIAL QUALITY (VISUAL CHECK ON CLEANINGLESS) | P |
| 4.5 | SOUND-PRODUCING TOYS | NA |
| 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 | P |
| 4.8 | PROJECTIONS | NA |
| 4.9 | ACCESSIBLE POINTS | P |
| 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 |



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| <u>SECTION</u> | <u>TESTING ITEMS</u> | <u>ASSESSMENT</u> |
|----------------|---|-------------------|
| 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 | NA |
| 4.26 | TOYS INTENDED TO BE ATTACHED TO A CRIB OR PLAYPEN | NA |
| 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 | P |
| 5 | LABELLING REQUIREMENT | P |
| 6 | INSTRUCTIONAL LITERATURE | P |
| 7 | PRODUCER'S MARKINGS | |
| | - NAME OF PRODUCER/DISTRIBUTOR (PACKAGE) | YES |
| | - ADDRESS (PACKAGE) | YES |



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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 : APR 10, 2008

TESTING PERIOD : APR 10, 2008 TO APR 19, 2008

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> |
|---------------|-----------------------|---------------------------|-------------------|-----------------------------|-------------------------|
| BLOCK | CORNER | 1.3 | 60 | 0.02 | 0.10 |

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

DATE SAMPLE RECEIVED : APR 10, 2008

TESTING PERIOD : APR 10, 2008 TO APR 19, 2008

END OF REPORT