



CHINA DRAGON

Inspection & Certification (H.K.) Ltd.

2nd Floor, Block A, 50 Fuk Hi Street, Yuen Long, N.T., Hong Kong.
Tel: 2675 0606 Fax: 2675 9737 Http://www.cdichk.com E-mail: enquiry@cdichk.com



Test Report

No. T48867

Date : 06 Feb 2009

MAN KUNG ENTERPRISE CO., LTD
NO. 522, SEC.4, HENAN RD,
TAICHUNG CITY 408, TAIWAN

Report on (6) six pieces of (1) one assorted style of submitted samples with blister card & cardboard packed said to be TOY CROSSBOW / BLACK COLOR.

Style / Item No.	:	AR0014 (BEAR ARCHERY)
Buyer	:	BEAR ARCHERY INC.
Manufacturer / Supplier	:	MAN KUNG ENTERPRISE CO., LTD
Country of Origin	:	TAIWAN
Country / State of Destination	:	U.S.A.
Labelled Age Group	:	"Ages 8 and up"
Age Group Applied in Testing	:	Ages 8 & up
Sample Received Date	:	30 Oct 2008 & 21 Jan 2009
Testing Period	:	30 Oct 2008 – 06 Feb 2009

Test Requested : For compliance with the American National Standard:
ASTM F963-07^{e1} – Standard Consumer Safety Specification for Toy Safety

1. Physical and mechanical test,
2. Flammability test; and;
3. Paint and surface coating - Heavy metals test.

Test Method : As specified in ASTM F963-07^{e1}.
Total Lead was performed by acid digestion method F963HM04A.
Heavy element analysis was performed by Inductively Coupled Plasma-Atomic Emission Spectrometry.

Results : Please refer to next pages.

Conclusion : The tested results of submitted samples were found to comply with the stated requirements of the American National Standard ASTM F963-07^{e1} – Standard Consumer Safety Specification for Toy Safety:

1. Physical and mechanical test,
2. Flammability test; and;
3. Paint and surface coating - Heavy metals test.

Signed for and on behalf of
China Dragon I&C (H.K.) Ltd.



Mr. KO Kwok-on, Andy / Technical Director
HOKLAS Approved Signatory



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Manufacturer Information:

Company name	: MAN KUNG ENTERPRISE CO., LTD
Address	: NO.522, SEC.4, HENAN RD., TAICHUNG CITY 408, TAIWAN
Tel	: 886 (0) 4-23812188
Fax	: 886 (0) 4-23812168
E-mail	: mankung@aptg.net ; aaengland123@yahoo.com.tw
Contact person	: MR. TSAI, CHIN-TIEN; MS. ANGEL CHIU

Buyer Information:

Company name	: BEAR ARCHERY INC.
Address	: 817 MAXWELL AVE. EVANSVILLE, INDIANA 47711, U.S.A
Tel	: 1-800 694 9494
E-mail	: customerservice@beararcheryproducts.com

Date of Manufacture: October 20th, 2008

Plate of Manufacture: Taichung City, Taiwan



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Results :

American National Standard ASTM F963-07^{e1} - Standard Consumer Safety Specification for Toy Safety

Section 4.1	Material Quality	<u>Pass</u>
Section 4.2	Flammability	<u>Pass *1</u>
Section 4.3.5	Paint & Similar Surface-coating Material	<u>Pass *2</u>
Section 4.3.8	DEHP (DOP)	<u>N/A</u>
Section 4.5	Sound-Producing Toys	<u>N/A</u>
Section 4.6	Small Objects.....	<u>N/A</u>
Section 4.7	Accessible Edges	<u>N/A</u>
Section 4.8	Projections	<u>N/A</u>
Section 4.9	Accessible Points	<u>N/A</u>
Section 4.10	Wires or Rods	<u>N/A</u>
Section 4.11	Nails & Fasteners	<u>Pass</u>
Section 4.12	Packaging Film	<u>N/A</u>
Section 4.13	Folding Mechanisms and Hinges.....	<u>N/A</u>
Section 4.14	Cords & Elastics in Toys	<u>N/A</u>
Section 4.15	Stability and Over-Load Requirements.....	<u>N/A</u>
Section 4.16	Confined Spaces	<u>N/A</u>
Section 4.17	Wheels, Tires, and Axles.....	<u>N/A</u>
Section 4.18	Holes, Clearance, and Accessibility of Mechanisms	<u>N/A</u>
Section 4.19	Simulated Protective Devices	<u>N/A</u>
Section 4.20	Pacifiers	<u>N/A</u>
Section 4.21	Projectile Toys	<u>Pass</u>
Section 4.22	Teethers and Teething Toys	<u>N/A</u>
Section 4.23	Rattles	<u>N/A</u>
Section 4.24	Squeeze Toys	<u>N/A</u>
Section 4.26	Toys Intended to be Attached to a Crib or Playpen	<u>N/A</u>
Section 4.28	Stuffed and Beanbag-type Toys	<u>N/A</u>
Section 4.29	Stroller and Carriage Toys	<u>N/A</u>
Section 4.31	Toy Gun Marking	<u>N/A</u>
Section 4.32	Balloons	<u>N/A</u>
Section 4.33	Certain Toys with Spherical Ends.....	<u>N/A</u>
Section 4.34	Marbles	<u>N/A</u>
Section 4.35	Balls	<u>N/A</u>
Section 4.36	Pompoms	<u>N/A</u>
Section 4.38	Yo Yo Elastic Tether Toys.....	<u>N/A</u>
Section 4.39	Magnets	<u>N/A</u>
Section 5	Labeling Requirements.....	<u>Pass</u>
Section 6	Instructional Literature	<u>N/A</u>
Section 7	Producer's Markings.....	<u>Pass</u>

Remarks :

1. N/A = Not Applicable.
2. *1 = See Note 1.
3. *2 = See Note 2.



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Note 1:

US CPSC 16 CFR Part 1500.44 - Method for Determining Extremely Flammable and Flammable Solids

<u>Sample/Sub-sample Description</u>	<u>Burn Rate (inch/second)</u>
Arrow	DNI
	DNI
	DNI
	DNI
Gun	DNI
	DNI
	DNI
	DNI
Target	DNI
	DNI
	DNI
	DNI
Projectile	DNI
	DNI
	DNI
	DNI

(A material is considered "flammable" if it ignites and burns with a self-sustained flame at a rate greater than 0.1 inch per second along its major axis).

Remarks :

DNI = Did not ignite



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Note 2:

Paint & Similar Surface-coating Material (Section 4.3.5)

Details of analytical samples:

- (1) Black coating (metal rim/screw)
- (2) Multi-color coating (target paper)
- (3) Black coating (instruction sheet)

<u>Element</u>	<u>(1)</u>	<u>(2)</u>	<u>(3)</u>	<u>Limit</u>
Total Lead (Pb)	<0.005	<0.005	<0.005	0.060%
Soluble Antimony (Sb)	< 5.0	< 5.0	< 5.0	60 mg/kg
Soluble Arsenic (As)	< 2.5	< 2.5	< 2.5	25 mg/kg
Soluble Barium (Ba)	<10.0	<10.0	<10.0	1000 mg/kg
Soluble Cadmium (Cd)	< 5.0	< 5.0	< 5.0	75 mg/kg
Soluble Chromium (Cr)	< 5.0	< 5.0	< 5.0	60 mg/kg
Soluble Lead (Pb)	< 5.0	< 5.0	< 5.0	90 mg/kg
Soluble Mercury (Hg)	< 5.0	< 5.0	< 5.0	60 mg/kg
Soluble Selenium (Se)	<10.0	<10.0	<10.0	500 mg/kg

Remarks:

- 1. <= less than
- 2. mg/kg = milligrams per kilogram.
- 3. % = weight per weight percent.
- 4. Results of soluble metals test shown are adjusted analytical value.
- 5. The sample weight of samples (2) and (3) used for analysis were 72mg and 34mg respectively.



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Samples Photo:



This test document cannot be reproduced in any way, except in full context, without the prior approval in writing of the laboratory. The result of this test report is based on our received samples only.
Test samples returned.

**** End of report ****