



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. SC19372

Date : 17 Feb 2009

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

Report on (3) three pieces of (1) one assorted style of submitted samples said to be ARCHERY BOW SET (COMPOUND BOW SET).

Style / Item No. : AYS5400RB2

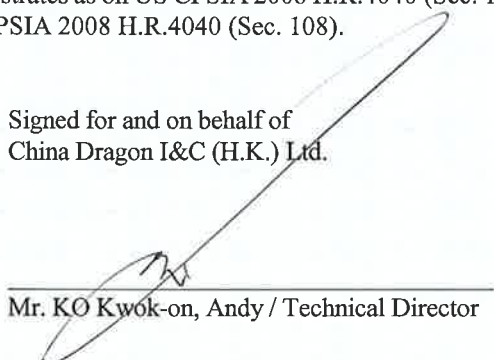
Buyer : BEAR ARCHERY INC.
Manufacturer : MAN KUNG ENTERPRISE CO., LTD
Supplier : MAN KUNG ENTERPRISE CO., LTD.
Country of Origin : TAIWAN
Country / State of Destination : U.S.A.
Sample Received Date : 13 Nov 2008
Testing Period : 13 Nov 2008 – 21 Nov 2008

Test Requested : For compliance with the followings requirements:
1. ASTM F963-07^{e1} – Standard Consumer Safety Specification for Toy Safety
Paint and surface coating - Heavy metals test.
2. Lead Content in Materials and Substrates as on US CPSIA 2008 H.R.4040 (Sec. 101).
3. Phthalates Content as in the US CPSIA 2008 H.R.4040 (Sec. 108)

Test Method : Refer to page 3.

Conclusion : The test results of the submitted samples, as tested, were found to comply with the followings:
1. ASTM F963-07^{e1} – Standard Consumer Safety Specification for Toy Safety
Paint and surface coating - Heavy metals test.
2. Lead Content in Materials and Substrates as on US CPSIA 2008 H.R.4040 (Sec. 101).
3. Phthalates Content as in the US CPSIA 2008 H.R.4040 (Sec. 108).

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


Mr. KO Kwok-on, Andy / Technical Director



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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: November 3rd, 2008

Plate of Manufacture: Taichung City, Taiwan



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- Test Method : 1. 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.
2. As specified in CPSC 16 CFR Part 1303. Total Lead was performed by acid digestion method F963HM04A.
Heavy element analysis was performed by Inductively Coupled Plasma – Atomic Emission Spectrometry.
3. Extraction by ASTM D3421-75 and then analysed by GC-MS.



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1) ASTM F963-07^{e1} – Standard Consumer Safety Specification for Toy Safety
Paint & Similar Surface-coating Material (Section 4.3.5)

Details of analytical samples:

- (1) Yellow coating (arrow)
- (2) Black coating (rod)
- (3) Dull black coating (limb)

<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	60 mg/kg
Soluble Arsenic (As)	-	< 2.5	< 2.5	25 mg/kg
Soluble Barium (Ba)	-	<10.0	180	1000 mg/kg
Soluble Cadmium (Cd)	-	< 5.0	< 5.0	75 mg/kg
Soluble Chromium (Cr)	-	< 5.0	< 5.0	60 mg/kg
Soluble Lead (Pb)	-	< 5.0	< 5.0	90 mg/kg
Soluble Mercury (Hg)	-	< 5.0	< 5.0	60 mg/kg
Soluble Selenium (Se)	-	<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 sample (1) was less than 10mg, according to the standard, hence they were not tested for soluble elements.
6. The sample weight of sample (2) used for analysis were 29mg.



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2) Lead Content in Materials and Substrates as on US CPSIA 2008 H.R.4040 (Sec. 101):

Details of analytical samples:

- (1) Yellow soft plastic (arrow)
- (2) White soft plastic (arrow)
- (3) Yellow plastic (arrow end)
- (4) Black plastic (arrow holder)
- (5) Black fiber glass (arrow)
- (6) Silver metal (arrow tip)
- (7) Black metal (axle)
- (8) Black soft rubber
- (9) Transparent plastic (limb)
- (10) Grey sponge (inside arrow holder)
- (11) Black plastic (gear)
- (12) Transparent plastic laminated sheet (label)
- (13) White paper with multi-color printing (label)
- (14) Black metal screw slot
- (15) Light grey plastic (arrow holder)
- (16) Black plastic (bowstring)
- (17) Black plastic (armguard)
- (18) Black male velcro (armguard)
- (19) Black female velcro (armguard)
- (20) Black plastic (finger tab)
- (21) Black thread (armguard)
- (22) White paper with black printing (label)
- (23) Yellow coating (arrow)
- (24) Dull black coating (limb)

Total Lead (Pb)	(1)	(2)	(3)	(4)	<u>Substrate Limit</u>
	<50	<50	<50	<50	600ppm
Total Lead (Pb)	(5)	(6)	(7)	(8)	<u>Substrate Limit</u>
	<50	<50	<50	<50	600ppm
Total Lead (Pb)	(9)	(10)	(11)	(12)	<u>Substrate Limit</u>
	<50	<50	<50	<50	600ppm
Total Lead (Pb)	(13)	(14)	(15)	(16)	<u>Substrate Limit</u>
	<50	<50	<50	<50	600ppm
Total Lead (Pb)	(17)	(18)	(19)	(20)	<u>Substrate Limit</u>
	<50	<50	<50	<50	600ppm
Total Lead (Pb)	(21)	(22)			<u>Substrate Limit</u>
	<50	<50			600ppm



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Total Lead (Pb)	(23) <50	(24) <50	<u>Coating Limit</u> 600ppm
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Remarks :

1. <= less than
2. % = weight per weight percent



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3) Phthalates Content as in the US CPSIA 2008 H.R.4040 (Sec. 108):

Detailed analytical sample:

- (1) Yellow soft plastic (arrow)
- (2) White soft plastic (arrow)
- (3) Yellow plastic (arrow end)
- (4) Black plastic (arrow holder)
- (5) Black fiber glass (arrow)
- (6) Black soft rubber
- (7) Black plastic (limb body)
- (8) Transparent plastic (limb)
- (9) Grey sponge (inside arrow holder)
- (10) Transparent plastic laminated sheet
- (11) White paper with multi-color printing (label)
- (12) Light grey plastic (arrow holder)
- (13) Black plastic (bowstring)
- (14) Black plastic (armguard)
- (15) Black male Velcro (armguard)
- (16) Black female Velcro (armguard)
- (17) Black plastic (finger tab)
- (18) Black thread (armguard)
- (19) White paper with black printing (label)
- (20) Yellow coating (arrow)
- (21) Dull black coating (limb)

Test Item(s)	Test Result(s)		
A. For Normal Toys and Childcare Articles:			
	(1)	(2)	Limit
DEHP Content % (w/w)	Not Detected	Not Detected	0.1
DBP Content % (w/w)	Not Detected	Not Detected	0.1
BBP Content % (w/w)	Not Detected	Not Detected	0.1
Total (DEHP + DBP + BBP)	Not Detected	Not Detected	0.1
B. For Toys and Childcare Articles (Which can be placed in Mouth by Children):			
	(1)	(2)	Limit
DINP Content % (w/w)	Not Detected	Not Detected	0.1
DIDP Content % (w/w)	Not Detected	Not Detected	0.1
DNOP Content % (w/w)	Not Detected	Not Detected	0.1
Total (DINP + DIDP + DNOP)	Not Detected	Not Detected	0.1



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Test Item(s)	Test Result(s)		
A. For Normal Toys and Childcare Articles:			
	(3)	(4)	Limit
DEHP Content % (w/w)	Not Detected	Not Detected	0.1
DBP Content % (w/w)	Not Detected	Not Detected	0.1
BBP Content % (w/w)	Not Detected	Not Detected	0.1
Total (DEHP + DBP + BBP)	Not Detected	Not Detected	0.1

B. For Toys and Childcare Articles (Which can be placed in Mouth by Children):			
	(3)	(4)	Limit
DINP Content % (w/w)	Not Detected	Not Detected	0.1
DIDP Content % (w/w)	Not Detected	Not Detected	0.1
DNOP Content % (w/w)	Not Detected	Not Detected	0.1
Total (DINP + DIDP + DNOP)	Not Detected	Not Detected	0.1

Test Item(s)	Test Result(s)		
A. For Normal Toys and Childcare Articles:			
	(5)	(6)	Limit
DEHP Content % (w/w)	0.015	Not Detected	0.1
DBP Content % (w/w)	0.020	Not Detected	0.1
BBP Content % (w/w)	Not Detected	Not Detected	0.1
Total (DEHP + DBP + BBP)	0.035	Not Detected	0.1

B. For Toys and Childcare Articles (Which can be placed in Mouth by Children):			
	(5)	(6)	Limit
DINP Content % (w/w)	Not Detected	Not Detected	0.1
DIDP Content % (w/w)	Not Detected	Not Detected	0.1
DNOP Content % (w/w)	Not Detected	Not Detected	0.1
Total (DINP + DIDP + DNOP)	Not Detected	Not Detected	0.1

Test Item(s)	Test Result(s)		
A. For Normal Toys and Childcare Articles:			
	(7)	(8)	Limit
DEHP Content % (w/w)	Not Detected	Not Detected	0.1
DBP Content % (w/w)	Not Detected	Not Detected	0.1
BBP Content % (w/w)	Not Detected	Not Detected	0.1
Total (DEHP + DBP + BBP)	Not Detected	Not Detected	0.1

B. For Toys and Childcare Articles (Which can be placed in Mouth by Children):			
	(7)	(8)	Limit
DINP Content % (w/w)	Not Detected	Not Detected	0.1
DIDP Content % (w/w)	Not Detected	0.038	0.1
DNOP Content % (w/w)	Not Detected	Not Detected	0.1
Total (DINP + DIDP + DNOP)	Not Detected	0.038	0.1



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Test Item(s)	Test Result(s)		
A. For Normal Toys and Childcare Articles:			
	(9)	(10)	Limit
DEHP Content % (w/w)	0.011	0.005	0.1
DBP Content % (w/w)	Not Detected	Not Detected	0.1
BBP Content % (w/w)	Not Detected	Not Detected	0.1
Total (DEHP + DBP + BBP)	0.011	0.005	0.1
B. For Toys and Childcare Articles (Which can be placed in Mouth by Children):			
	(9)	(10)	Limit
DINP Content % (w/w)	Not Detected	Not Detected	0.1
DIDP Content % (w/w)	Not Detected	Not Detected	0.1
DNOP Content % (w/w)	Not Detected	Not Detected	0.1
Total (DINP + DIDP + DNOP)	Not Detected	Not Detected	0.1

Test Item(s)	Test Result(s)		
A. For Normal Toys and Childcare Articles:			
	(11)	(12)	Limit
DEHP Content % (w/w)	Not Detected	Not Detected	0.1
DBP Content % (w/w)	Not Detected	Not Detected	0.1
BBP Content % (w/w)	Not Detected	Not Detected	0.1
Total (DEHP + DBP + BBP)	Not Detected	Not Detected	0.1
B. For Toys and Childcare Articles (Which can be placed in Mouth by Children):			
	(11)	(12)	Limit
DINP Content % (w/w)	Not Detected	Not Detected	0.1
DIDP Content % (w/w)	Not Detected	Not Detected	0.1
DNOP Content % (w/w)	Not Detected	Not Detected	0.1
Total (DINP + DIDP + DNOP)	Not Detected	Not Detected	0.1

Test Item(s)	Test Result(s)		
A. For Normal Toys and Childcare Articles:			
	(13)	(14)	Limit
DEHP Content % (w/w)	Not Detected	Not Detected	0.1
DBP Content % (w/w)	Not Detected	Not Detected	0.1
BBP Content % (w/w)	Not Detected	Not Detected	0.1
Total (DEHP + DBP + BBP)	Not Detected	Not Detected	0.1
B. For Toys and Childcare Articles (Which can be placed in Mouth by Children):			
	(13)	(14)	Limit
DINP Content % (w/w)	Not Detected	0.012	0.1
DIDP Content % (w/w)	Not Detected	Not Detected	0.1
DNOP Content % (w/w)	Not Detected	Not Detected	0.1
Total (DINP + DIDP + DNOP)	Not Detected	0.012	0.1



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Test Item(s)	Test Result(s)		
A. For Normal Toys and Childcare Articles:			
	(15)	(16)	Limit
DEHP Content % (w/w)	Not Detected	Not Detected	0.1
DBP Content % (w/w)	Not Detected	Not Detected	0.1
BBP Content % (w/w)	Not Detected	Not Detected	0.1
Total (DEHP + DBP + BBP)	Not Detected	Not Detected	0.1
B. For Toys and Childcare Articles (Which can be placed in Mouth by Children):			
	(15)	(16)	Limit
DINP Content % (w/w)	Not Detected	Not Detected	0.1
DIDP Content % (w/w)	Not Detected	Not Detected	0.1
DNOP Content % (w/w)	Not Detected	Not Detected	0.1
Total (DINP + DIDP + DNOP)	Not Detected	Not Detected	0.1

Test Item(s)	Test Result(s)		
A. For Normal Toys and Childcare Articles:			
	(17)	(18)	Limit
DEHP Content % (w/w)	0.005	Not Detected	0.1
DBP Content % (w/w)	Not Detected	Not Detected	0.1
BBP Content % (w/w)	Not Detected	Not Detected	0.1
Total (DEHP + DBP + BBP)	0.005	Not Detected	0.1
B. For Toys and Childcare Articles (Which can be placed in Mouth by Children):			
	(17)	(18)	Limit
DINP Content % (w/w)	Not Detected	Not Detected	0.1
DIDP Content % (w/w)	Not Detected	Not Detected	0.1
DNOP Content % (w/w)	Not Detected	Not Detected	0.1
Total (DINP + DIDP + DNOP)	Not Detected	Not Detected	0.1

Test Item(s)	Test Result(s)		
A. For Normal Toys and Childcare Articles:			
	(19)	(20)	Limit
DEHP Content % (w/w)	Not Detected	0.054	0.1
DBP Content % (w/w)	Not Detected	Not Detected	0.1
BBP Content % (w/w)	Not Detected	Not Detected	0.1
Total (DEHP + DBP + BBP)	Not Detected	0.054	0.1
B. For Toys and Childcare Articles (Which can be placed in Mouth by Children):			
	(19)	(20)	Limit
DINP Content % (w/w)	Not Detected	Not Detected	0.1
DIDP Content % (w/w)	Not Detected	Not Detected	0.1
DNOP Content % (w/w)	Not Detected	Not Detected	0.1
Total (DINP + DIDP + DNOP)	Not Detected	Not Detected	0.1



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Test Item(s)	Test Result(s)		Limit
A. For Normal Toys and Childcare Articles:			
	(21)		Limit
DEHP Content % (w/w)	Not Detected		0.1
DBP Content % (w/w)	0.005		0.1
BBP Content % (w/w)	Not Detected		0.1
Total (DEHP + DBP + BBP)	0.005		0.1
B. For Toys and Childcare Articles (Which can be placed in Mouth by Children):			
	(21)		Limit
DINP Content % (w/w)	0.007		0.1
DIDP Content % (w/w)	Not Detected		0.1
DNOP Content % (w/w)	Not Detected		0.1
Total (DINP + DIDP + DNOP)	0.007		0.1

Remark:

- 1) <= Less than.
- 2) % (w/w) = percent per weight.
- 3) --- = Not requested by the customer.
- 4) Detection limit for each individual phthalate is 0.005%.
- 5) The phthalates DEHP, DBP and BBP shall not be used as substances or as constituents of preparations, at concentrations of greater than 0.1% by mass of the plasticised material, in toys and childcare articles. Meanwhile the phthalates DINP, DIDP and DNOP shall not be used as substances or as constituents of preparations, at concentrations of greater than 0.1% by mass of the plasticised material, in toys and childcare articles which can be placed in mouth by children.

Note:

- DINP = Di-iso-nonyl phthalate (CAS No 28553-12-0 and 68515-48-0, Einecs No 249-079-5 and 271-090-9)
 DEHP = Di (2-ethylhexyl) phthalate (CAS No 117-81-7, Einecs No 204-211-0)
 DBP = Dibutyl phthalate (CAS No 84-74-2, Einecs No 201-557-4)
 DIDP = Di-iso-decyl phthalate (CAS No 26761-40-0, Einecs No 247-977-1)
 DNOP = Di-n-octyl phthalate (CAS No 117-84-0, Einecs No 204-214-7)
 BBP = Butyl benzyl phthalate (CAS No 85-68-7, Einecs No 201-622-7)



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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 sample returned.

***** End of report *****