



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.SC19378

Date : 18 Feb 2009

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

Report on (5) five pieces of (1) one assorted style of submitted samples said to be ARCHERY BOW SET (BLACK RISER; GREEN LIMB).

Style / Item No. : AYS6100
Buyer : BEAR ARCHERY INC.
Manufacturer : MAN KUNG ENTERPRISE CO., LTD
Country of Origin : TAIWAN
Country / State of Destination : U.S.A.
Sample Received Date : 02 Nov 2008
Testing Period : 02 Nov 2008 – 25 Nov 2008

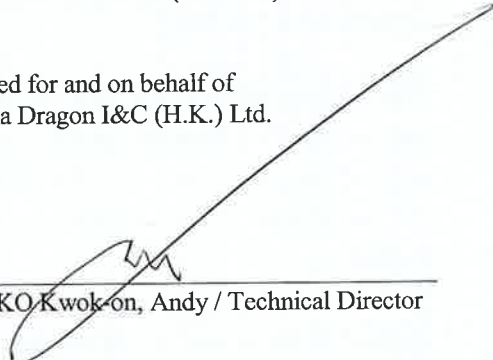
Test Requested : For compliance with the US CPSIA 2008 H.R.4040 requirements on the following items:
1. Lead Content in Materials and Substrates as on US CPSIA 2008 H.R.4040 (Sec. 101).
2. Phthalates Content as in the US CPSIA 2008 H.R.4040 (Sec. 108)

Test Method : 1. 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.
2. Extraction by ASTM D3421-75 and then analysed by GC-MS.

Results : Please refer to next pages.

Conclusion : The test results of the submitted samples, as tested, were found to comply with:
1. Lead Content in Materials and Substrates as on US CPSIA 2008 H.R.4040 (Sec. 101).
2. 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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Results :

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

Details of analytical samples:

- (1) White coating (wording)
- (2) Yellow coating (wording on arrow)
- (3) Black coating (limb)
- (4) Black plastic (riser)
- (5) Yellow soft plastic (arrow)
- (6) White soft plastic (arrow)
- (7) Yellow plastic (arrow end)
- (8) Black plastic (armguard/finger tab)
- (9) Black fiber glass (arrow)
- (10) Green fiber glass (limb)
- (11) Black male velcro (armguard)
- (12) Black female velcro (armguard)
- (13) Black thread (armguard/quiver)
- (14) Black artificial leather (quiver)
- (15) Black / brown / yellow string
- (16) Red plastic (arrow)

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

Remarks :

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



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

Detailed analytical sample:

- (1) White coating (wording)
- (2) Yellow coating (wording on arrow)
- (3) Black coating (limb)
- (4) Black plastic (riser)
- (5) Yellow soft plastic (arrow)
- (6) White soft plastic (arrow)
- (7) Yellow plastic (arrow end)
- (8) Black plastic (armguard/finger tab)
- (9) Black fiber glass (arrow)
- (10) Green fiber glass (limb)
- (11) Black male velcro (armguard)
- (12) Black female velcro (armguard)
- (13) Black thread (armguard / quiver)
- (14) Black artificial leather (quiver)
- (15) Black / brown / yellow string
- (16) Red plastic (arrow)

Test Item(s)	Test Result(s)		
A. For Normal Toys and Childcare Articles:			
	(1)	(2)	Limit
DEHP Content % (w/w)	0.018	0.050	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)	0.018	0.050	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)	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):			
	(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)	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):			
	(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)	0.009	0.016	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)	0.009	0.016	0.1
B. For Toys and Childcare Articles (Which can be placed in Mouth by Children):			
	(7)	(8)	Limit
DINP Content % (w/w)	0.005	0.008	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)	0.005	0.008	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)	0.014	Not Detected	0.1
DBP Content % (w/w)	0.018	Not Detected	0.1
BBP Content % (w/w)	Not Detected	Not Detected	0.1
Total (DEHP + DBP + BBP)	0.032	Not Detected	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)	0.006	0.015	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)	0.006	0.015	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	0.032	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	0.032	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	0.007	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	0.007	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:



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Test sample returned.

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