Asia
Room 1801-2, TOWER B, REGENT CENTRE,
63 WO YI HOP ROAD, KWAI CHUNG,
NEW TERRITORIES, HONG KONG
TEL: (852) 2429 7022 FAX: (852) 2429 7266
ctcasia@ctcgroupe.com

TEST REPORT

Report No.: 06151-09

October 23, 2009

APPLICANT:
WUXI BESTER KNITTING MANUFACTURING & TRADING CO., LTD.

MS. AVA SUN
DEPT: MARKETING
NO.12, XIN CUN ROAD, AN ZHEN TOWN WUXI,
JIANGSU, 214105, CHINA

Test(s) requested : EN 388, EN 420 & CHEMICAL TESTS **Product Category :** -- **Product Type :** --
Sample description: ---

Style / Article no.	:	09CNM845Z	**Buyer**	:	--
Ref no.	:	--	**Exported to**	:	--
Order no.	:	--	**Date of receipt of application form**	:	Oct 12, 2009
			Date of receipt of sample	:	Oct 12, 2009
Supplier	:	--	**Testing period**	:	October 12, 2009 – October 23, 2009
Number of sample(s)	:	8 PAIRS OF GLOVES & 4 ROLLS OF RAW MATERIALS	**Service required**	:	REGULAR

1. Conclusion:

	Testing	Result	Combine / Separate Test Item(s)	Failed Test Item(s)
	Dexterity	**Level 5**	**(S01)**	**---**
	Sizing of glove	**7, 8, 9, 10**	**(S01), (S02), (S03), (S04)**	**---**
	Abrasion resistance of glove	**Level 4**	**(S01)**	**---**
	Blade cut resistance of glove	**Level 5**	**(S05)**	**---**
	Tear resistance of glove	**Level 4**	**(S01)**	**---**
	Puncture resistance of glove	**Level 3**	**(S01)**	**---**
♦/■	**Azo dyes**	**P**	**(S06), (S07), (S08), (S09), (S10), (S11), (S12)**	**---**
	pH value	**P**	**(S06), (S07), (S08), (S09), (S10), (S11), (S12)**	**---**

♦ This test was sub-contracted to Modern Testing Services (Global) Ltd

■ This test is not covered by HOKLAS accreditation

Note: *P: Pass F : Fail*

The dexterity of the glove got level 5 and the sizes were 7, 8, 9 and 10; the pH value test passed the requirement according to EN 420 standard. The abrasion and tear resistances both got level 4; the blade cut resistance got level 5 and the puncture resistance got level 3 according to EN 388 standard. The Azo dyes test passed the requirement.

Approved by

Original signed

John Cheung Fai Cheong
Assistant Laboratory Supervisor

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HOKLAS 158

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2. Label(s) on the sample(s):

Sample(s)	ID	Size	Style/Art. No.	Sub-sample(s)	Component(s)	Colour
(01)	i	--	09CNM845Z	(a)	Glove	Black/White/Green
				(b)	Binding	
(01)	ii	--	09CNM845Z	(a)	Glove	Black/White/Green
				(b)	Binding	
(02)	i	--	09CNM845Z	(a)	Glove	Black/White/Brown
				(b)	Binding	Brown
(02)	ii	--	09CNM845Z	(a)	Glove	Black/White/Brown
				(b)	Binding	Brown
(03)	i	--	09CNM845Z	(a)	Glove	Black/White/Yellow
				(b)	Binding	Yellow
(03)	ii	--	09CNM845Z	(a)	Glove	Black/White/Yellow
				(b)	Binding	Yellow
(04)	i	--	09CNM845Z	(a)	Glove	Black/White
				(b)	Palm	Black
				(c)	Palm Back	Black/White
				(d)	Cuff	Black/White
				(e)	Binding	Black
(04)	ii	--	09CNM845Z	(a)	Glove	Black/White
				(b)	Palm	Black
				(c)	Palm Back	Black/White
				(d)	Cuff	Black/White
				(e)	Binding	Black

Remarks: (1) ID is used for identification in which the numbers of sample received are of the same article, ref. no., colour, etc.

3. Sample(s) description assigned by laboratory:

Test item	Sample(s)	Combine / Separate sub-sample(s)
(S01)	(01)-i+ii	(a)
(S02)	(02)-i+ii	(a)
(S03)	(03)-i+ii	(a)
(S04)	(04)-i+ii	(a)
(S05)	(02)-i	(a)
(S06)	(04)-i+ii	(b)
(S07)	(04)-i+ii	(c)
(S08)	(04)-i+ii	(d)
(S09)	(01)-i+ii	(b)
(S10)	(02)-i+ii	(b)
(S11)	(03)-i+ii	(b)
(S12)	(04)-i+ii	(e)

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4. Test Results :

	TEST METHOD	Test item(s) (S01)	Requirement	P/F
1	**Dexterity** # **(EN 420:2003 §6.2)**			
	Highest value of four tests :	5.0	---	---
	Performance Level :	5	---	---
2	**Abrasion resistance of glove** # **(NF EN 388:2004 §6.1)**			
	Lowest value of four tests :	>8,000	---	---
	Performance Level :	4	---	---
3	**Tear resistance of glove** # **(NF EN 388:2004 §6.3)**			
	Lowest value of four tests (N):	200	---	---
	Performance Level :	4	---	---
4	**Puncture resistance of glove** # **(NF EN 388:2004 §6.4)**			
	Lowest value of four tests (N):	104	---	---
	Performance Level :	3	---	---

	TEST METHOD	Test item(s) (S05)		Requirement	P/F
5	**Blade cut resistance of glove** # **(NF EN 388:2004 §6.2)**	Index (I)			
	Sequence	Test 1	Test 2		
	1	30.5	29.1	---	
	2	27.4	31.6	---	
	3	28.6	31.3	---	
	4	---	---	---	
	5	---	---	---	
	Average (I):	28.8	30.7	---	
	Lowest average value (I) :	28.8		---	---
	Performance Level :	5		---	---

 # Table of Performance Level for Glove

Test Item	Performance Level					
	0 ##	1	2	3	4	5
Abrasion Resistance (NF EN 388:2004 §6.1) Number of cycles (minimum)	< 100	100	500	2000	8000	---
Blade Cut Resistance (NF EN 388:2004 §6.2) Index (I) (minimum)	< 1.2	1.2	2.5	5.0	10.0	20.0
Tear Resistance (NF EN 388:2004 §6.3) Force (N) (minimum)	< 10	10	25	50	75	---
Puncture Resistance (NF EN 388:2004 §6.4) Force (N) (minimum)	< 20	20	60	100	150	---
Dexterity (EN 420:2003 §6.2) Diameter of pin (in mm)	---	11.0	9.5	8.0	6.5	5.0

Performance level 0 means the glove falls below the minimum performance level for the given individual hazard.

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TEST METHOD		Test item(s) (S01)		Requirement	P/F
6	**Sizing of glove (EN 420:2003 §6.1)**	Total length (mm)	Corresponding size		
	Test 1	232	7	---	---
	Test 2	230	7	---	---
	Test 3	230	7	---	---
	Test 4	234	7	---	---

TEST METHOD		Test item(s) (S02)		Requirement	P/F
6	**Sizing of glove (EN 420:2003 §6.1)**	Total length (mm)	Corresponding size		
	Test 1	242	8	---	---
	Test 2	240	8	---	---
	Test 3	243	8	---	---
	Test 4	242	8	---	---

TEST METHOD		Test item(s) (S03)		Requirement	P/F
6	**Sizing of glove (EN 420:2003 §6.1)**	Total length (mm)	Corresponding size		
	Test 1	253	9	---	---
	Test 2	252	9	---	---
	Test 3	252	9	---	---
	Test 4	255	9	---	---

TEST METHOD		Test item(s) (S04)		Requirement	P/F
6	**Sizing of glove (EN 420:2003 §6.1)**	Total length (mm)	Corresponding size		
	Test 1	261	10	---	---
	Test 2	262	10	---	---
	Test 3	260	10	---	---
	Test 4	265	10	---	---

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	TEST METHOD	Test item(s) (S06)	(S07)	(S08)	(S09)	(S10)	(S11)	(S12)	Requirement	P/F
7 ♦/■	**Azo dyes (§64 LFGB B 82.02-2:2004) *** Detection after aqueous extraction (ppm) (mg/kg)	<30	<30	<30					--- <30	P
8 ♦/■	**Azo dyes (§64 LFGB B 82.02-4:2004) *** Detection after polyester extraction (ppm) (mg/kg)			<30	<30	<30	<30	<30	--- <30	P
9	**pH value (EN 420:2003 §4.3.2)**									
	pH of the component	7.0	7.0	7.0	7.0	7.1	7.1	7.1	>3.5&<9.5	P
	pH of the extracting solution	6.5	6.5	6.5	6.5	6.5	6.5	6.5	---	
	Temperature of the solution (℃)	22.4	22.5	22.8	22.7	22.6	22.6	22.7	---	

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Note: *P: Pass F: Fail*

*TEST METHOD ACCORDING TO THE OFFICIAL COMPILATION OF TEST PROCEDURES PURSUANT TO SECTION 64 OF FOODS, COMMODITIES AND FEEDSTUFF ACT (§64 LFGB) B 82.02-2 (2004) FOR TEXTILE, B 82.02-4 (2004) FOR POLYESTER, B 82.02-3(V) (2004) FOR LEATHER MATERIALS. THE PRESENCE OF 4-AMINOAZOBENZENE IS DETERMINED BY §64 LFGB B 82.02-9 (2006). REMOVAL OF FAT BY N-HEXANE (IN CASE OF LEATHER), TREATMENT WITH CITRIC BUFFER, REDUCTIVE CLEAVAGE WITH SODIUM DETHIONITE, EXTRACTION WITH ETHER, DETECTION BY GC/MS AND / OR HPLC/DAD. (DETECTION LIMIT: 5 mg/kg)

LIST OF AROMATIC AMINES
(DETECTION LIMIT=5 mg/kg)

BENZIDINE
4-AMINODIPHENYL
4-CHLORO-O- TOLUIDINE
2-NAPHTHYLAMINE
O-AMINOAZOTOLUENE
2-AMINO-4-NITROTOLUENE
P-CHLOROANILINE
2,4'-DIAMINOANISOLE
4,4'-DIAMINODIPHENYLMETHANE
3,3'-DICHLOROBENZIDINE
3,3'-DIMETHOXYBENZIDINE
3,3'-DIMETHYLBENZIDINE
3,3'-DIMETHYL-4,4'-DIAMINODIPHENYLMETHANE
P-CRESIDINE
4,4'-METHYLENE-BIS-(2-CHLOROANILINE)
4,4'-OXYDIANILINE
4,4'-THIODIANILINE
O-TOLUIDINE
2,4,5-TRIMETHYLANILINE
2,4-TOLUYLENEDIAMINE
O-ANISIDINE
4-AMINOAZOBENZENE

- End of report -