

Product:	<b>Woven Fabric</b>		
Scope:	Woven Fabric (not including sleepwear used fabric)	Protocol No.	TYCP-24204-NA
		Version	2.0
		Issue Date	15 Jan 2013
		Prepared by	GZ Technical Support Team
		Page	1 of 6

**NB: Where there is no applicable US or CN standard, Intertek has chosen the most relevant International standards to assess the product safety and performance. For undated references, the latest edition of the referenced document (including any amendments) applies.**

Attribute	Citation	Requirement / Limit
<b>For US Market</b>		
<b>Supplemental Protocol</b>		
*† CA Prop 65 (Mandatory in state California)	Intertek Protocol	Consent Judgment of related court cases based on California Proposition 65.
*† CPSIA Supplemental	TYCP-00001-US	Shall comply with the applicable requirements.
*† Children's Products (Non-toy)	TYCP-16026-US	Shall comply with the applicable requirements.
Note: Additional cost, sample size & TAT may be required if testing to 1 or more supplemental protocol is necessary. Please refer to the above referenced supplemental protocol(s) for additional information.		
<b>Chemical Analysis</b>		
*† Lead Content in Paint and Similar Surface Coating	16 CFR 1303 (Scope Widened)	Shall not contain Lead or Lead compounds in which the Lead content is in excess of 90ppm by weight of the total content
*pH value	AATCC 81	White: 5-7 Others: 6-8
Formaldehyde Spot test (Do below test directly if result is Positive)	ITS 416	Negative
* Formaldehyde Content	AATCC 112	For children less than 36 months, 20 ppm For children more than 36 months, 75 ppm
<b>Physical Characteristics</b>		
*† Fiber Content	AATCC 20/20A	±3% tolerance blends No tolerance for single fiber
Weight per unit area	ASTM D 3776	Report actual or +/-5.0% from claims
Yarn Count	ASTM D 1059	Report actual or +/-5.0% from claims
Fabric count	ASTM D 3775	Report actual or +/-5.0% from claims
<b>Construction &amp; Workmanship</b>		
Workmanship	ASTM D 3990 Visual check	No Major Defects - Shall Demonstrate Good, Even Construction, With No Sharp Edges, Sharp Points, Discoloration, etc
<b>Performance Test</b>		
† Flammability of Clothing	16 CFR 1610	Class 1
Dimensional stability to washing (Per care instruction)	AATCC 135/150 (3 cycles)	-4% +3%
Appearance to washing	Per Dimensional stability to washing	Satisfactory
Dimensional Stability to Dryclean (per care instruction or on request)	Commercial Dryclean (1 cycle)	+/-2.5%
Appearance after Dryclean	Per Dimensional Stability to Dryclean	Satisfactory
Tensile strength	ASTM D5034	Shirt, Dress, skirt: 30 lbs Jacket, Coat, Vest: 37 lbs Pants, shorts, Jeans: 50 lbs

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		Version	2.0
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		Prepared by	GZ Technical Support Team
		Page	2 of 6

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Tear Strength	ASTM D 1424	Shirt, Dress, skirt: 1.8 lbs Jacket, Coat, Vest: 2.0 lbs Pants, shorts, Jeans: 2.5 lbs
Water Repellency (If claimed)	AATCC 22	Original: Rating 90 min. After 5 washes: Rating 70 min
Water Resistance (if claimed)	AATCC 35 (2 min 2 ft water)	Original and after 5 washes: 1.0 g max
Abrasion Resistance (Shell only)	ASTM D4966	Blouse, Shirt, Dress, Skirt: 10,000 rubs Jacket, Coat: 20,000 rubs Pants, Shorts: 30,000 rubs
Stretch & recovery (For fabric with spandex)	ASTM D 3107	In stretch direction only: Spandex Content > 10%, Growth maximum: 5% Spandex Content < 10%, Growth maximum: 8%
<b>Colourfastness</b>		
To Washing	AATCC 61	Color Change: Print and Pigment: 3.5 min. Others: 4 min. Color Stain: Dark colors, Pigment Dyed and Pigment Printed: 3 min Others: 3.5 min. Self-staining: 4 min.
To Dryclean (per care instruction)	AATCC 132	Color Change: Print and Pigment: 3.5 min. Others: 4 min. Color Stain: Dark colors, Pigment Dyed and Pigment Printed: 3 min Others: 3.5 min. Self-staining: 4 min.
To Non-Chlorine Bleach (per care instruction)	AATCC/ASTM TS-001	Colour Change: Grade 4.0 min.
To Chlorine Bleach (per care instruction)	AATCC/ASTM TS-001	Colour Change: Grade 4.0 min.
To Crocking	AATCC 8 / 116	Dry: 4 min. Wet: 2.5 min.  <i>Raised surface (including Brushed, Sanded, Peached), Dark colors, Pigment Dyed and Pigment Printed:</i> Dry: 3.5 min. Wet: 2 min.

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		Version	2.0
		Issue Date	15 Jan 2013
		Prepared by	GZ Technical Support Team
		Page	3 of 6

Attribute	Citation	Requirement / Limit
To water	AATCC 107	Color Change: Print and Pigment: 3.5 min. Others: 4 min. Color Stain: Dark colors, Pigment Dyed and Pigment Printed: 3 min Others: 3.5 min. Self-staining: 4 min.
To Perspiration	AATCC 15	Color Change: Print and Pigment: 3.5 min. Others: 4 min. Color Stain: Dark colors, Pigment Dyed and Pigment Printed: 3 min Others: 3.5 min. Self-staining: 4 min.
To Light (For shell fabric only)	AATCC 16	General (20 AFU): Medium to dark colors: 4 min. Pastels, bright & neon colors: 3.5 min. Swimwear (40 AFU): Medium to dark colors: 3.5 min. Pastels, bright & neon colors: 3 min.
To Burnt Gas Fumes (Whites & Indigo Only)	AATCC 23 (1 cycle)	Colour Change: Grade 4.0 min.
To Ozone (Whites & Indigo Only)	AATCC 109 (1 cycle)	Colour Change: Grade 4.0 min.
To Saliva ( for children less than 36 months)	64 LFGB	Color staining : Grade 4.5 min .

**For Canada Market****Chemical Analysis**

Flame Retardant for TRIS	CHPA R.S., c. H-3, Schedule I, Part I, Item 30	Not used
pH value	AATCC 81	White: 5-7 Others: 6-8
Formaldehyde Spot test (Do below test directly if result is Positive)	ITS 416	Negative
* Formaldehyde Content	AATCC 112	For children less than 36 months, 20 ppm For children more than 36 months, 75 ppm

**Physical Characteristics**

*† Fiber Content	CAN/CGSB-4.2 No. 14	Single fiber: No tolerance Blended fiber: +/- 5%
Weight per unit area	CAN/CGSB-4.2 No. 5.1	Report actual or +/-5.0% from claims
Yarn Count	CAN/CGSB-4.2 No. 5.2	Report actual or +/-5.0% from claims
Fabric count	CAN/CGSB-4.2 No. 6	Report actual or +/-5.0% from claims

**Construction & Workmanship**

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		Version	2.0
		Issue Date	15 Jan 2013
		Prepared by	GZ Technical Support Team
		Page	4 of 6

Attribute	Citation	Requirement / Limit
Workmanship	ASTM D 3990 Visual check	No Major Defects - Shall Demonstrate Good, Even Construction, With No Sharp Edges, Sharp Points, Discoloration, etc
<b>Performance Test</b>		
† Flammability - General Wearing Apparel	Textile Flammability Regulations (SOR/2011-22)	Canadian Consumer Product Safety Act, Schedule 1, Part 1, Item 4: a) Time of flame spread shall be greater than 3.5 seconds, where the product does not have a raised fiber surface, or: b) Time of flame spread shall be greater than 4 seconds, where the product has a raised fiber surface and exhibits ignition or fusion of its base fibers.
Dimensional stability to washing (Per care instruction)	CAN/CGSB-4.2 No. 58 (5 cycles)	-4% +3%
Appearance to washing	Per Dimensional stability to washing	Satisfactory
Dimensional Stability to Dryclean (per care instruction or on request)	Commercial Dryclean (3 cycle)	+/-2.5%
Appearance after Dryclean	Per Dimensional Stability to Dryclean	Satisfactory
Tensile strength	CAN/CGSB-4.2 No. 9.2	Shirt, Dress, skirt: 30 lbs Jacket, Coat, Vest: 37 lbs Pants, shorts, Jeans: 50 lbs
Tear Strength	CAN/CGSB-4.2 No. 12.3	Shirt, Dress, skirt: 1.8 lbs Jacket, Coat, Vest: 2.0 lbs Pants, shorts, Jeans: 2.5 lbs
Water Repellency (If claimed)	CAN/CGSB-4.2 No. 26.2	Original: Rating 90 min. After 5 washes: Rating 70 min
Water Resistance (if claimed)	AATCC 35 (2 min 2 ft water)	Original and after 5 washes: 1.0 g max
Abrasion Resistance (Shell only)	ASTM D4966	Blouse, Shirt, Dress, Skirt: 10,000 rubs Jacket, Coat: 20,000 rubs Pants, Shorts: 30,000 rubs
Stretch & recovery (For fabric with spandex)	ASTM D 3107	In stretch direction only: Spandex Content > 10%, Growth maximum: 5% Spandex Content < 10%, Growth maximum: 8%
<b>Colourfastness</b>		
To Washing	CAN/CGSB-4.2 No. 19.2	Color Change: Print and Pigment: 3.5 min. Others: 4 min. Color Stain: Dark colors, Pigment Dyed and Pigment Printed: 3 min Others: 3.5 min. Self-staining: 4 min.

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		Version	2.0
		Issue Date	15 Jan 2013
		Prepared by	GZ Technical Support Team
		Page	5 of 6

Attribute	Citation	Requirement / Limit
To Dryclean (per care instruction)	CAN/CGSB-4.2 No. 29.1	Color Change: Print and Pigment: 3.5 min. Others: 4 min. Color Stain: Dark colors, Pigment Dyed and Pigment Printed: 3 min Others: 3.5 min. Self-staining: 4 min.
To Non-Chlorine Bleach (per care instruction)	ISO 105 C09	Colour Change: Grade 4.0 min.
To Chlorine Bleach (per care instruction)	CAN/CGSB-4.2 No. 19.2	Colour Change: Grade 4.0 min.
To Crocking	CAN/CGSB-4.2 No. 22	Dry: 4 min. Wet: 2.5 min.  <i>Raised surface (including Brushed, Sanded, Peached), Dark colors, Pigment Dyed and Pigment Printed:</i> Dry: 3.5 min. Wet: 2 min.
To water	CAN/CGSB-4.2 No. 20	Color Change: Print and Pigment: 3.5 min. Others: 4 min. Color Stain: Dark colors, Pigment Dyed and Pigment Printed: 3 min Others: 3.5 min. Self-staining: 4 min.
To Perspiration	CAN/CGSB-4.2 No. 23	Color Change: Print and Pigment: 3.5 min. Others: 4 min. Color Stain: Dark colors, Pigment Dyed and Pigment Printed: 3 min Others: 3.5 min. Self-staining: 4 min.
To Light (For shell fabric only)	CAN/CGSB-4.2 No. 18.3	General (up to grade 4): Medium to dark colors: 3-4 min. Pastels, bright & neon colors: 3 min. Swimwear (up to grade 5): Medium to dark colors: 4-5 min. Pastels, bright & neon colors: 4 min.
To Burnt Gas Fumes (Whites & Indigo Only)	CAN/CGSB-4.2 -35.1-M90 (1 cycle)	Colour Change: Grade 4.0 min.
To Ozone (Whites & Indigo Only)	AATCC 109 (1 cycle)	Colour Change: Grade 4.0 min.
To Saliva ( for children less than 36 months)	64 LFGB	Color staining : Grade 4.5 min .

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		Prepared by	GZ Technical Support Team
		Page	6 of 6

**Remark:** Additional tests may be incurred subject to the final samples reviewed by Intertek.

**Key:** \*: Additional charge items †: Mandatory Requirement

#### Testing Charge & Sample Size & Turnaround Time

<b>Packaging Charge (Net Price)</b>	USD 350 for each market	
<b>Sample size</b>	3 yards of fabric per market (Additional Sample may be required for tests with additional charge.)	
<b>Turnaround time</b>	5 working days	
<b>*Individual Charge (subject to client discount)</b>		
a. CA Prop 65	Refer to CA Prop 65	Refer to CA Prop 65
b. CPSIA Supplemental	Refer to CPSIA Supplemental	Refer to CPSIA Supplemental
c. Children's Products (Non-toy)	Refer to Children's Products (Non-toy)	Refer to Children's Products (Non-toy)
d. Lead content test	USD 31 per result	Subject of actual sample
e. Toxics in packaging	USD 54 per material	0.5 gram of packaging material
f. Fiber Content	On Quote	2 X A4 size
g. Formaldehyde Content	USD 69 per part	10 g of material
h. Flame Retardant for TRIS	USD 190 per part	5g
i. PH	USD 25	10g
<b>Remark:</b> Price information is for reference only and based on our Guangzhou laboratory pricing. Please check with local laboratories to confirm exact pricing for your region.		

#### Revision History

Issue No.	Revision date	Changes	Prepared by	Approved by
1.0	Sep 26, 2011	Initial Release	Dongmei Zhang	
2.0	Aug 24, 2012	Add the Canada test requirement	Renee Zhao Sherry Wang	Taylor (Emily) on 08 Jan 2013