

Product:	Cap and Hat		
Scope:	Cap and Hat	Protocol No.	TYCP-24703-NA
		Version	2.0
		Issue Date	15 Jan 2013
		Prepared by	GZ Technical Support Team
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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
Supplemental Protocol(s)		
*† 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.		
Chemical Analysis		
*† Lead Content in Paint and Similar Surface Coating	16 CFR 1303 (Scope Widened)	Shall not exceed 90ppm (0.009% by weight) total lead.
*† Toxic elements in Packaging material (if applicable)	Model Toxics in Packaging Legislation / State Legislation	The sum of Cadmium, Hexavalent Chromium, Lead and Mercury in package or packaging component shall be less than 100 ppm by weight.
* Nickel Release (for metal components)	EN 1811 / EN 12472	The rate of nickel release from the parts of these products coming into direct and prolonged contact with the skin should be less than 0.5µg/cm ² /week.
*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	75 ppm max
Physical Characteristics		
* Fiber Analysis (if claimed)	AATCC 20/20A	Single fiber: No tolerance Blended fiber: +/- 3%
Fabric Weight	ASTM D3776 (for woven) / ASTM D3887 (for knit)	Report actual or +/-5.0% from claims
Construction & Workmanship		
Workmanship	Visual check	No Major Defects - Shall Demonstrate Good, Even Construction, With No Sharp Edges, Sharp Points, Discoloration, Fabric Defects Or Seam Openings, etc
Flammability		
Flammability	ASTM D1230	Class 1
Performance Test		
Tensile Strength (Woven)	ASTM D5034	25.0 lbs min.
Seam Strength (Woven)	ASTM D1683	20.0 lbs min.
Bursting strength (knit)	ASTM D 3786	35 lb/ sq in min
Seam Bursting strength (knit)	ASTM D 3786(Mod)	30 lb/ sq in min
* UV protection (if claimed)	AATCC 183	Report actual, shall meet claimed if applicable
Attachment Strength	Pull test	Snaps, Buttons, Shanks, Rivets, etc. 15 lbs for 10 seconds. Hand-Sewn Beads, Sequins, etc. 5 lbs for 10 seconds.

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Attribute	Citation	Requirement / Limit
Resistance To Corrosion (Metal Components)	ASTM B117 (Mod.)	Withstand 24 hours in 1% salt spray (fog) with no major corrosion or visual change. Modification = 1% salt (fog) spray.
Colourfastness		
Colourfastness To Perspiration (The side direct contact with skin)	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.
Colourfastness 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.
Colourfastness 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.
Colourfastness To light	AATCC 16 E (20AFU)	Medium to dark colors: 4 min. Pastels, bright & neon colors: 3.5 min.
Phenolic Yellowing test (White colour only)	ISO 105X18	Grade 4.5 min
Care Labelling Test (per provide care instruction)		
Dimensional Stability to Washing (Per care instruction)	AATCC 135/150 (3 cycles)	Woven: -4.0%/+3.0% Knitted: -6.0%/+5.0%
Appearance After Washing	Per Dimensional Stability to Washing	Satisfactory
Dimensional Stability to Dryclean (Per care instruction)	Commercial Dryclean (1 cycle)	Woven: $\pm 2.5\%$ Knitted: $\pm 3.0\%$
Appearance After Washing	Per Dimensional Stability to Dryclean	Satisfactory

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Attribute	Citation	Requirement / Limit
Color Fastness to Washing (Per care instruction)	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.
Color Fastness 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.
Color Fastness to Chlorine Bleach (per care instruction)	AATCC/ASTM TS-001	Color Change: Grade 4.0 min.
Color Fastness to Non-Chlorine Bleach (per care instruction)	AATCC/ASTM TS-001	Color Change: Grade 4.0 min.

Labelling Requirement

†One Time Use Products Fair Packaging and Labeling Act OR All Other Products Uniform Packaging and Labeling Regulations	F.P. & L. Act (16 CFR 500) OR NIST Uniform Laws and Regulations Handbook 130	Manufacturer, packer, or distributor's name & address (city, state & zip)
		Product Identification
†Country of Origin Marking	19 CFR 134.11	Net quantity of contents shall be expressed in terms of weight or mass, measure, numerical count, or combination so as to give accurate information to facilitate consumer comparison (U.S. and metric units).
Fiber Content (if applicable)	16 CFR 303 / 300	Shall indicate country of origin legibly, permanently, and in comparable size and close proximity to any mention of country other than country in which the article was manufactured or produced. Must be visible at point of purchase.
RN# (Registered Number) or Manufacturer Name	FTC Visual Check	Must be visible at point of sale & must comply with regulations (Textile Fibers Identification Act or Wool Products Labeling Act)
Care Instruction (if applicable)	16 CFR 423	Verify presence and must comply with the Textile Fiber Product Identification Act.
Verify Label Claims (if any)	ITS-M0060	Must be sewn in permanently and must comply with regulations (Care Labeling Rule)
		Must comply with all claims

For Canada Market**Chemical Analysis**

† Lead In Surface Coating (For children under 14 yrs of age)	CCPSA Surface Coating Materials Regulations section 7.2	Shall not exceed 0.009% (90mg/kg) by weight.
*Flame Retardant for TRIS	CHPA R.S., c. H-3, Schedule I, Part I, Item 30	Not used

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Attribute	Citation	Requirement / Limit
*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	75 ppm max
Physical Characteristics		
* Fiber Analysis (if claimed)	CAN/CGSB-4.2 No. 14	Single fiber: No tolerance Blended fiber: +/- 5%
Fabric Weight	CAN/CGSB-4.2 No. 5.1	Report actual or +/-5.0% from claims
Construction & Workmanship		
Workmanship	Visual check	No Major Defects - Shall Demonstrate Good, Even Construction, With No Sharp Edges, Sharp Points, Discoloration, Fabric Defects Or Seam Openings, etc
† Sharp Points / Sharp Edges	Hazardous Products [Toys] Regulations C.R.C., c. 931	Shall have no sharp points / edges, other than those required for function. Modified = Expanded scope to other than toy products
† Small Parts	Hazardous Products [Toys] Regulations C.R.C., c. 931	The requirement of small parts for choking hazard applies to all Decorative and Functional items If the decorative or functional item fails attachment strength or appearance after laundering requirement, it will then be tested as a small part. If it can fit entirely within the specified small parts cylinder under a 1 lb. weight, then the item is classified as a small part (ingestion and /or aspiration hazard) and must fail.
Flammability		
† 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.
Performance Test		
Tensile Strength (Woven)	CAN/CGSB-4.2 No. 9.2	25.0 lbs min.
Seam Strength (Woven)	CAN/CGSB-4.2 No. 32.2	20.0 lbs min.
Bursting strength (knit)	CAN/CGSB-4.2 No. 11.1	35 lb/ sq in min
Seam Bursting strength (knit)	CAN/CGSB-4.2 No. 11.1	30 lb/ sq in min
* UV protection (if claimed)	AATCC 183	Report actual, shall meet claimed if applicable
Attachment Strength	Pull test	Snaps, Buttons, Shanks, Rivets, etc. 15 lbs for 10 seconds. Hand-Sewn Beads, Sequins, etc. 5 lbs for 10 seconds.
Resistance To Corrosion (Metal Components)	ASTM B117 (Mod.)	Withstand 24 hours in 1% salt spray (fog) with no major corrosion or visual change. Modification = 1% salt (fog) spray.
Colourfastness		

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Colourfastness To Perspiration (The side direct contact with skin)	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.
Colourfastness 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.
Colourfastness 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.
Colourfastness To light	CAN/CGSB-4.2 No. 18.3 (up to 4 grade)	Medium to dark colors: 4 min. Pastels, bright & neon colors: 3.5 min.
Phenolic Yellowing test (White colour only)	ISO 105X18	Grade 4.5 min
Care Labelling Test (per provide care instruction)		
Dimensional Stability to Washing (Per care instruction)	CAN/CGSB-4.2 No. 58 (5 cycles)	Woven: -4.0%/+3.0% Knitted: -6.0%/+5.0%
Appearance After Washing	Per Dimensional Stability to Washing	Satisfactory
Dimensional Stability to Dryclean (Per care instruction)	Commercial Dryclean (3 cycle)	Woven: $\pm 2.5\%$ Knitted: $\pm 3.0\%$
Appearance After Washing	Per Dimensional Stability to Dryclean	Satisfactory
Color Fastness to Washing (Per care instruction)	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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Attribute	Citation	Requirement / Limit
Color Fastness 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.
Color Fastness to Chlorine Bleach (per care instruction)	CAN/CGSB-4.2 No. 19.2	Color Change: Grade 4.0 min.
Color Fastness to Non-Chlorine Bleach (per care instruction)	ISO 105 C09	Color Change: Grade 4.0 min.

Labelling Requirement

†Labeling - Packaging	Consumer Packaging and Labeling Act, R.S. 1985, c. C-38 and Regulations, C.R.C., c. 417	<p>The net quantity declaration shall present on Principal Display Panel (PDP) in English and French, metric units.</p> <p>The numerical quantity shall be bold type with letter height based on the size of PDP (X):</p> <table border="0"> <tr> <td>Size of PDP</td> <td>Minimum letter height</td> </tr> <tr> <td>X ≤ 32 cm² (5 in²)</td> <td>1.6 mm (1/16 in)</td> </tr> <tr> <td>32 cm² < X ≤ 258 cm² (40 in²)</td> <td>3.2 mm (1/8 in)</td> </tr> <tr> <td>258 cm² < X ≤ 645 cm² (100 in²)</td> <td>6.4 mm (1/4 in)</td> </tr> <tr> <td>645 cm² < X ≤ 25.8 dm² (400 in²)</td> <td>9.5 mm (3/8 in)</td> </tr> <tr> <td>25.8 dm² (400 in²) < X</td> <td>12.7 mm (1/2 in)</td> </tr> </table> <p>All other information in the net quantity declaration (i.e. units of measurement statements, abbreviations, symbols, etc.) shall be shown in minimum 1.6 mm letter height.</p> <p>Product identification shall be shown on Principal Display Panel (PDP) in English and French, minimum 1.6 mm letter height.</p> <p>Dealer's name and principal place of business (address) shall be shown on any part of label except bottom, English or French, minimum 1.6 mm letter height.</p> <p>For imported goods, the name and address of the dealer outside Canada or the name and address of Canadian dealers shall be preceded by "imported by" ("importé par") or "imported for" ("importé pour"), unless a statement of geographic origin is located immediately adjacent to the name and address of a Canadian dealer, and shown with letter height at least as large as those used in the declaration of the Canadian dealer's principal place of business.</p>	Size of PDP	Minimum letter height	X ≤ 32 cm ² (5 in ²)	1.6 mm (1/16 in)	32 cm ² < X ≤ 258 cm ² (40 in ²)	3.2 mm (1/8 in)	258 cm ² < X ≤ 645 cm ² (100 in ²)	6.4 mm (1/4 in)	645 cm ² < X ≤ 25.8 dm ² (400 in ²)	9.5 mm (3/8 in)	25.8 dm ² (400 in ²) < X	12.7 mm (1/2 in)
Size of PDP	Minimum letter height													
X ≤ 32 cm ² (5 in ²)	1.6 mm (1/16 in)													
32 cm ² < X ≤ 258 cm ² (40 in ²)	3.2 mm (1/8 in)													
258 cm ² < X ≤ 645 cm ² (100 in ²)	6.4 mm (1/4 in)													
645 cm ² < X ≤ 25.8 dm ² (400 in ²)	9.5 mm (3/8 in)													
25.8 dm ² (400 in ²) < X	12.7 mm (1/2 in)													

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†Fiber Content Label	Textile Labelling Act and Textile Labelling and Advertising Regulations, C.R.C., c. 1551	Label must be legible and accessible to the consumer. Per Canadian Textile Labelling Act and Textile Labelling and Advertising Regulations, C.R.C., c. 1551, the permanency of the label depends on the type of article, as specified in Schedule I or III, of the Regulations. Refer to the Regulations for details. All fiber content information (generic names of fibers) must be in English and French.
†CA No. or Dealer Identity	Textile Labelling Act and Textile Labelling and Advertising Regulations, C.R.C., c. 1551	The CA number of the Canadian dealer or the name and full postal address under which the dealer normally carries out his business must be present on the fiber content label per Sections 11 and 12 of the Textile Labelling and Advertising Regulations.
†Country of Origin	Canada Customs Tariff, Marking of Imported Goods Regulations, SOR-94-10	Shall be present in English or French if not manufactured in Canada.
The Language of Inscription (mandatory in Quebec)	The Charter of French Language, Title I, Chapter VII, Clause 51 & Regulations adopted under the Charter of French Language	Every inscription on the following shall be drafted in French: - product container or wrapping - document or object supplied with it (e.g. directions for use, warranty certificates) No inscription in another language may be given greater prominence than that in French. For exceptions, check the following webpage:- http://www.olf.gouv.qc.ca/english/regulations/reg_business.html#div1
Labeling of Pre-Packaged Consumer Textile Articles	Textile Labelling Act and Textile Labelling and Advertising Regulations, C.R.C., c. 1551	Per Section 21 of the Textile Labeling and Advertising Regulations, C.R.C., c. 1551, if the textile article is sold in a wrapper, package or container and the fiber content label is clearly visible to the consumer, no further labeling is required. If the label is not visible, the information to be shown on the label must be repeated on the wrapper, package or container in the prescribed manner.
Care Label	National Standard of Canada, Care Labeling of Textiles, CAN/CGSB-86.1-2003 and Canadian Textile Test Methods CAN/CGSB-4.2	If Canadian care symbols are used, these must be presented in accordance with the National Standard of Canada, Care Labelling of Textiles, CAN/CGSB-86.1-2003. Care labels must be permanently attached to the textile article.
Use Labeling	Visual Check	Use/care instructions that are clear and understandable shall be provided in language appropriate to destination countries.

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Stuffed Articles (if applicable)	Technical Standard and Safety Act, 2000 - Ontario Regulation 218/01 - Quebec Regulation Respecting Stuffing and Upholstered and Stuffed Articles - The Public Health Act of Manitoba, C.C.S.M. c.P210 - Bedding - Upholstered and Stuffed Articles Regulation	Upholstered articles shall have a label in the required format, securely affixed in a conspicuous location to the stuffed article. Labels must be made of a white durable fabric with black printing and shall declare filling materials by generic name in descending order based on the volume of each filling material.

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

Packaging Charge (Net Price)	USD 350 for each market	
Sample size	2 pieces of finished products + 1.5 yard fabric per each market (Additional Sample may be required for tests with additional charge.)	
Turnaround time	5 working days	
Additional Charge (subject to client discount)		Additional sample size
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 in Paint and Similar Surface Coating	USD 31 per result	Subject to actual sample
e. Toxics in packaging	USD 54 per material	0.5 gram of packaging material
f. Nickel Release	EN 1811: USD 77 EN 12472: USD 109	4 pieces of metal components
g. Fiber Analysis	On Quote	2 X A4 size
h. Formaldehyde Content	USD 69 per part	10 g of material
i. UV protection	USD 108 per result	0.5 yard fabric
j. Care labelling	USD 250	3pcs whole product
k. Flame Retardant for TRIS	USD 190	5g
l. pH value	USD 25	10g
Remark: 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	

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2.0	Aug 24, 2012	Add the Canada test requirement	Renee Zhao Sherry Wang	Taylor (Emily) on 08 Jan 2013
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