



GP-O1 Outerwear Garment Test Protocol

Exclude Leather, Suit Jacket, Blazer, Sportscoat

Test Property	Test Method	Adults	Children	Test Principle / Requirements
ALL MATERIALS / COMPONENTS MUST COMPLY WITH PREVAILING AFIRM RSL REQUIREMENTS				
Analytical				
California Proposition 65 *	Visual Inspection Citation: California Health & Safety Code, Sec. 25210.9-25210.12		✓	All samples shall be reviewed against the latest settlement to determine if additional testing or labeling is required.
Phthalates ^^	CPSC-CH-C1001-09.4		✓	Requirement: Max. 0.1% Testing on all accessible plastic components for child care articles
Total Lead Content (Materials & all substrates) ^^ (on trim only)	CPSC-CH-E1001-08.1 + CPSC-CH-E1002-08.1 Citation: 16 CFR 1500.87-91		✓	Max.100 ppm
Lead in paint and surface coating ^^	CPSC-CH-E1003-09.1 Citation: 16 CFR 1303 / Health Canada Method C02.2 Citation: Surface Coating Materials Regulations SOR/2005-109		✓	Max. 90 ppm
Cadmium ^^ (Test Plastic item/ All surface coatings)	Plastic item: BS EN 1122 All surface coatings: Lab In-house method		✓	Coating : < or = 1,000 mg/kg Others : < or = 100 mg/kg
Nickel Release * (for touchable Metal components)	EN 1811 & EN 12472:2005 + A1:2015 Citation: REACH Regulation (EC) 552/2009 Amending 1907/2006, Annex XVII, Entry 43		✓	<0.88 Pass ≥0.88 Fail
Chromium VI with aging - Leather only/All colorways * (exemption for 100% vegetable-tanned leather materials/trims without any Chromium salts)	Aging Condition (Ref. ISO 10195 method A2 Modified) - 80°C, 24 hours, RH < 5% and EN ISO 17075-2	✓	✓	max. 3 mg/kg
Fiber Content				
Fiber Content *	AATCC 20/20A GB/T 29862	✓	✓	Must conform within ±3.0% of labeled claim (Blends); 0% (one fiber) Fibre recommendation : one recommendation is provided for all three markets (USA, Canada & EU), one recommendation is provided for China market Note : "Contains non-textile parts of animal origin" is needed to state for all components that fit this classification. This includes but is not limited to: Shell / Cow Nappa / Hair Calf / Goat Nappa / Lamb Shearling / Lamb Suede / Lamb / Leather / Shearling / Cow hide / Suede / Nubuck / Grain / Leather / Down.
For Feather & Down Stuffed Samples only				
Specie *	GB/T 10288-2016 Section 5.2	✓	✓	CHINA : ≥ 85% if claimed to be goose in origin. No requirement for filling originated from duck. USA, CAN & EU : ≥ 90% for pure specie claim. Specie display on label is voluntary.
USA Market				
Feather & Down Composition Labeling	Textile Fiber Products Identification Act / USA-2000 Labeling Standards	✓	✓	Sample shall comply the labeling requirement. Only filling composition is concerned. Specie may be taken into consideration if claimed.
Canada Market				
Feather & Down Composition	CAN/CGSB 139.2-M86	✓	✓	Sample shall comply the labeling requirement. Only filling composition is concerned. Specie may be taken into consideration if claimed.
Feather & Down Composition Labeling	Refer to Guide to the Labelling of Down and Feathers	✓	✓	
EU Market				
Feather & Down Composition Labeling	EN 12934:1999	✓	✓	Sample shall comply the labeling requirement. Only filling composition is concerned. Specie may be taken into consideration if claimed.
China Market				
Feather & Down Composition Labeling	Refer to GB/T 14272-2021 Annex A	✓	✓	Comply with GB/T 14272-2021 Annex A
Filling Power *	GB/T 14272-2021 Annex C	✓	✓	Comply with GB/T 14272-2021 Annex A
Oil and Fat Content *	GB/T 10288-2016 Section 5.6	✓	✓	≤ 1.2
Turbidity *	GB/T 10288-2016 Section 5.5 Method A	✓	✓	≥ 500 mm
Oxygen Number *	GB/T 10288-2016 Section 5.4	✓	✓	≤ 5.6 mg/100g
Odour *	GB/T 10288-2016 Section 5.7	✓	✓	Pass



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Net Weight of Filling *	GB/T 14272-2021 Annex B	✓	✓	No less than 5% of claimed value
Down-proof Properties *	GB/T 14272-2021 Annex D	✓	✓	≤ 120 piece / m ²
Physical Performance				
Presence of Odor*	GB 18401 6.7	✓	✓	Odorless
Labeling				
Textile Fiber Products Identification Act (TO BE PERFORMED ONLY IF A FIBRE LABEL IS SUBMITTED.)	16 CFR 303.4 & 16 CFR 303.15 Citation: Textile Fiber Products Identification Act	✓	✓	Textile fiber products shall be labeled in accordance with the requirements of the Act.
	GB/T 29862	✓	✓	Must comply with GB/T 29862
Dimensional Stability				
Machine Wash (3x)	AATCC 150	✓	✓	WOVEN: General: 5.0% x 5.0%; Fabric/Garment Wash: Nylon & Nylon Blends: 2.0% x 2.0%; Rayon & Rayon Blends: 5.0% x 5.0%; Cotton & Cotton Blends: 4.0% x 4.0%; Others: 3.0% x 3.0%
Hand Wash (3x)	JCTM001	✓	✓	KNIT: General: 6.0% x 6.0%; Fabric/Garment Wash: Fleece: 6.0% x 6.0%; Wool (hand wash): 3.0% x 3.0%; Others: 5.0% x 5.0% Linings compatible with shell 1%
Dryclean (1x)	Commercial Method	✓	✓	2.5% x 2.5%
Appearance After Washing / Drycleaning	Ref. AATCC 150 (machine wash) / JCTM001 (hand wash) / Commercial method (dryclean) / ISO 16322-3: Procedure B	✓	✓	After washing: Satisfactory General: Color change: 3.5; Pigment Prints/Pigments/Denim/Indigo Dye/Overdye/Garment Dye/Sulphur Black: Color change 3.0; Add Color change rating (with fluorescence suppressor) if optical brightener is suspected to be one of the reasons for failure Self-staining: 4.5; Pilling: Class 4.0 Skewness : Wovens: max. 3%, Knits: max. 5% After drycleaning: Color change: 3.5; Self-staining: 4.5; Pilling: Class 4.0 Skewness : Wovens: max. 3%, Knits: max. 5%
Colour Fastness				
Crocking/Rubbing (Leather Panel/Trim Only - Face & Back) * (Test face only if leather back with full lining)	AATCC 8 / 116	✓	✓	Dry: 3.0, Wet: 2.0
Garment Strength Properties				
Seam Strength (Woven Only)	ASTM D1683	✓	✓	General: 20 lbs. min., Denim: 35 lbs. min., Lining: 15 lbs. min.
Seam Strength (woven to knit/sweater portion)	Ref. ASTM D1683	✓	✓	Report the results as "Data" only
Pocket Strength	ASTM D7506	✓	✓	All Pockets: 15 lbs. min.
Button Tension Test (All kinds of buttons)	16 CFR 1500.53 (e) & (f)	✓		Torque test: 4 in-lbf/10 seconds or 180° Tension test: Perform test at 15 lbs/10 seconds; Pass/Fail at 13.5 lbs; Bra Keeper Snaps - Perform test at 15 lbs/10 seconds; Pass/Fail at 8 lbs.



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Button Loop Attachment Strength	16 CFR 1500.53 (f)	✓		Min. 10 lbs
Hook & Bar Attachment Strength Test	16 CFR 1500.53 (f)	✓		Perform test at 15 lbs/10 seconds; Pass/Fail at 13.5 lbs (Hook & Bar in fastened condition)
Seam Stretchability (for knit pants, knit shorts and knit skirts only) *	AATCC / ASTM TS 015	✓	✓	Min. 7 lbs. or 35% elongation
Snap / Unsnap Force	AATCC / ASTM TS 013, ASTM D4846 snap action	✓	✓	2 - 8 lbs
Mechanical Safety Test				
Small parts attachment strength	16 CFR 1500.53 (e) & (f) (Including zipper puller & Button)		✓	Torque test: 4 in-lbf for 10 seconds or 180° rotation at clockwise and counter clockwise directions Tension test: 15lbs for 10 seconds
	Ref. BS 7907 Annex B		✓	All trims (dimension >3 mm) exclude all sequins Largest grippable dimension >6 mm : Min. 70N; Largest grippable dimension >3 mm but ≤6 mm : Min. 50N; zipper - single stringer slider retention : Min. 60N Small parts should be failed regardless of age of sample submitted.
	GB 31701 Clause 4.4 & Annex A 4.1		✓	All trims (dimension >3 mm) Largest grippable dimension >6 mm : Min. 70N for 10 seconds; Largest grippable dimension >3 mm but ≤6 mm : Min. 50N for 10 seconds; zipper - single stringer slider retention : Min. 60N Small parts should be failed regardless of age of sample submitted.
	All trims largest grippable dimensions <3mm, Non-grippable & Sequins in any dimensions - both grippable or non-grippable Ref. BS 7907 Annex C - durawash / GB 31701 Clause 4.4 & Annex A 4.2 Detergent: Follow GB 31701 Washing & drying conditions: Follow BS 7907		✓	(1) All trims largest grippable dimensions <3mm (2) Non-grippable (3) Sequins in any dimensions - both grippable or non-grippable Must pass to wash test Satisfactory (Pass) : no component(s) has come off. Small parts should be failed regardless of age of sample submitted. NOTE: Regardless the actual care instruction, all applicable garments will be tested for Durawash in 40°C and tumble dry low (<60°C).
Small Parts	16CFR 1501		✓	Required safety labeling shall consist of and alert symbol, a signal word (Caution or Warning) if any item fits into small parts cylinder
	EN 71-1, Sec. 5.1(a), 8.2 and Annex A.26 & A.36		✓	Samples and their removable components, regardless of their position, shall not fit entirely in the small parts cylinder, before and after subjected to BS 7907 annex B or C testing.
	Ref. GB 6675.2 Section 4.4		✓	Samples and their removable components, regardless of their position, shall not fit entirely in the small parts cylinder, before and after appropriate use and abuse testing.
Sharp points/sharp edges	16 CFR 1500.48 & 49		✓	No sharp points & sharp edges found.
	EN 71-1, Sec. 8.11 and Annex A.26		✓	Samples shall not exhibit accessible hazardous sharp edges.
	EN 71-1, Sec. 8.12 & A.40		✓	There shall be no hazardous accessible sharp points present.
	GB 31701 Clause 4.4.2		✓	No sharp points & sharp edges found.
	ASTM F1816-97 Year: R2009 Citation: 16 CFR Part 1120		✓	Children's upper outerwear: 1. Not allowed at hood and neck area (for sizes 2T – 12). 2. Should not exceed 3" at waist area from where the strings extend out of the garment when it is expanded to its fullest width and should be permanently attached (for sizes 2T – 16 or XS, S, M, L & XL). 3. Prohibit toggles, knots and other attachments at the free ends of drawstrings.



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Drawstrings (means a cord that passes through a channel or necessarily provide for closure), or a non-retractable cord, ribbon, or tape of any material to pull together parts of an article of clothing to provide for closure	N.Y.GBS. Law § 391-b (All children's clothing including bottom garment (i.e. sweatpants))		✓	Age range 2T - 12: No drawstrings (means a non-retractable cord, string, ribbon, bungee, or tape of any material inserted into a channel of the garment to pull together parts of an article of clothing for the purpose of controlling closure or fullness) are allowed in hood and neck areas. Age range 2T - 16: 1) The drawstring is attached to the garment at its mid-point, so it cannot be fully pulled to one side, thus making a hazard. 2) The ends of the drawstrings measure no longer than three (3) inches from the point where the drawstring measured while the garment is expanded to its fullest width. 3) No toggles, knots, or attachments can be placed at the ends of the drawstrings other than a standard aglet (used to prevent fraying).
	Wisconsin Chapter ATP 139.055 (7) & (8) (Age range : 0 - 16)		✓	All children's clothing: No drawstrings in the neck area. Children upper outerwear: 1) Every drawstring is sewn to the garment at the midpoint of the drawstring channel so the drawstring cannot be pulled out of the channel. 2) Not more than 3 inches of any drawstring is outside the drawstring channel when the garment is expanded to its fullest width. 3) There is no toggle, knot or other attachment at the free end of any drawstring.
Tie / String / Strap (Decorative purpose) - excluding tie belt unattached to the garment	Visual method		✓	Must be permanently attached and exposed ends should not exceed 5.5" for size 3 & under and 8" for size 4 & up.
Cords and Drawstrings*	EN 14682		✓	Refer to EN14682 test standard
	GB 31701 Section 4.4.3		✓	Refer to GB 31701 test standard
Pom-Poms and Tassels (for Crewcuts - all ages)	BS 7907 Section 6.5.5		✓	Pom-poms and tassels constructed from cut lengths of yarn should not be used on garments for children aged under 36 months owing to the potential for fibres and yarns to be easily removed.

1. * = Additional cost
2. ^ = Max. 3 components of same material to test as 1 composite sample. If positive/inconclusive result was found in composited sample, separate retest of each component will be conducted in order to determine the individual compliance of each component in the sample.
3. Embellishment: button, sequins, zipper, stopper, bugles, beading, rhinestone,etc.
4. Chromium VI testing with aging is strongly recommended during the bulk skins stage. This will help to identify failures & potential non-compliance on final product.
5. For garment dye or garment wash programs, both fabric and garment package tests can be performed on dyed/washed sample at the same time.
6. PVC is not allowed in any J. Crew products (all brands)
7. Cellulose Nitrate is not allowed in any J. Crew products (all brands).
8. Jequirity Bean (Rosary Pea) is not allowed in any J.Crew products (all brands).
9. For product with contrasting color combination, mockup sample should be tested for C.F to Laundering, C.F to Dry Clean, C.F to Perspiration and C.F to Water
10. For any special claim, please refer the protocol SC-P1 to test
11. Stones are not permitted for use on Crewcuts products