

ADULT OUTERWEAR

TEST DESCRIPTION	REGULATION/TEST METHOD	REQUIREMENTS
MANDATORY		
Sew-in Label Verification - Fiber Content - Country of Origin - Care Instructions - Registration Number (RN) or Wool products Registration Number (WPL)	FTC Textile Fiber ID Act 16 CFR 303 16 CFR 300 19 CFR 134	Must Comply
Law Labeling (For filling clothing)	Various States Regulation	1- States require manufacturer of quilted clothing to get registration number in one of the state and maintain registration in relevant states. 2- For filling material made of wool, feathers, down, shoddy, and hair, the sterilization permit number (PER. NO.) shall be listed on the textile label. 3- Contents of Down, Goose Down, or Duck Down shall also state's the minimum percentage.
Fiber Content	AATCC 20/20A	Single fiber \pm 0.0% Blends \pm 3.0%
Wearing Apparel Flammability	16 CFR Parts 1610	Shall meet Class 1 requirements
Dimensional Stability to Laundering (3x)	AATCC 150	% Length % Width Basic - Natural 5 X 5 Basic - Synthetic 3 X 3
Dimensional Stability to Dry Cleaning (1x)	AATCC 158	% Length % Width 3 X 3
Colorfastness to Laundering/ Dry Cleaning	AATCC 61/132	Shade Change: Grade 4 minimum Staining: Grade 3 minimum Self -Staining: Grade 5/ No Self Staining
General Appearance After Laundering 3 Home Launderings/1 Dry Cleaning	Visual Evaluation	- No open raveling, open seams, or tufting damage. - No obvious defects/observations affecting the end product performance/appearance. - Color Change: Grade 4 - Self staining: Grade 4 - List all observations
Colorfastness to Chlorine Bleach	AATCC TS-001	Grade 4
Colorfastness to Non-Chlorine Bleach	AATCC TS-001	Grade 4
Colorfastness to Crocking	AATCC 8/116	Dry: Grade 4 minimum Wet: Grade 3 minimum
Water Resistance: Rain Test	AATCC 35	Maximum 1g of water penetration @2 ft/2 minute.
Water Repellency: Spray Test	AATCC 22	Original – 90 Washed, after 3 HL-70
Pentachlorothiophenol (PCTP)	Environmental Protection Agency, 86 FR 894, Final Rule, 40 CFR Part 751, Subpart E	\leq 1 % (10000 mg/kg)

Hexachlorobutadiene (HCBD)	Environmental Protection Agency, 86 FR 894, Final Rule, 40 CFR Part 751, Subpart E	Prohibited
STATES REGULATIONS		
Total heavy metals in packaging	Toxics in Packaging Clearinghouse (TPCH)	Packaging shall not contain the sum of mercury, cadmium, lead and chromium (VI) in concentration above 0.01% by weight. Sum of Phthalates: ≤ 100 mg/kg, PFAS: Not detected
Plastic Bag Warnings	Various state laws	Plastic bags with a thickness of less than 1 mil (0.001 inch) having an opened end larger than 5 inches in diameter shall contain the following warning statement or equivalent: WARNING: To avoid danger of suffocation, keep this plastic bag away from babies and children. Do not use this bag in cribs, beds, carriages or playpens. This bag is not a toy.
California Prop 65	Warning label or applicable testing	In lieu of warning label, product should meet all applicable Prop 65 requirements.
Flame Retardants	Various state laws	Products claimed with flame retardant treatment shall meet all applicable requirements.
OPTION (QUALITY & PERFORMANCE)		
Thread Count	ASTM D3775	As Specified (+/- 5%)
Weight	ASTM D3776	As Specified (+/- 5%)
Yarn Size	ASTM D1059	As Specified (+/- 10%)
Formaldehyde (Spot Test)	AATCC 94	No Trace If trace is found - proceed with full testing
Formaldehyde	JIS 1041 LAW 112 ISO 14184-1 (textile) ISO 17226-1 (leather)	-Direct skin contact: 75 mg/kg -Without direct skin contact: 300 mg/kg
pH of Water Extract	pH of Water Extract AATCC TM81 (textile) ASTM D2810 (leather)	Textile: 4.0-8.0 Leather: 3.5-7.5
Colorfastness to Light	AATCC 16 Option 3 40 hours	Grade 4
Torque (Knits only)	AATCC 179 Method 2, Option 3	5.0% Max
Tensile Strength (Wovens)	ASTM D5034	40 x 30 lbs. (warp x weft)
Tear Strength (Wovens)	ASTM D1424	3.0 x 2.5 lbs. (warp x weft)
Bursting Strength (Knits)	ASTM D 3786	50 PSI
Seam Strength	ASTM D 1683	All Seams: 30 lbs. Minimum Bartacks and reinforcements: 20 lbs. Min
Pilling Resistance (Woven) Martindale Pilling Method 100 Movements	ASTM D4970	Grade 3.5 minimum
Pilling Resistance (Knit) Random Tumble Pilling Resistance	ASTM D3512	Grade 3.5 Minimum after 30 minutes
Attachment Strength Snaps Buttons, Shanks, Rivets, etc. Hand-Sewn Beads, Sequins, etc.	ASTM D7142 Opt. 2 16 CFR 1500.50- 53 16 CFR 1500.50-53	15 lb. / 10 sec. 15 lb. / 10 sec. 5 lb. / 10 sec
Zipper Operability (open/close)	ASTM D2062	3 lb. maximum