

ACTIVE / SWIMWEAR PROTOCOL - CHILDREN

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
Fiber Content	AATCC 20/20A	Single fiber ± 0.0% Blends ± 3.0%
Wearing Apparel Flammability	16 CFR Parts 1610	Shall meet Class 1 requirements
Dimensional Stability to Laundering – Woven (3x)	AATCC 150	% Length % Width Basic - Natural 5 X 5 Basic - Synthetic 3 X 3
Dimensional Stability to Laundering – Knits (3x)	AATCC 150	% Length % Width 5 X 7
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
Pentachlorothiophenol (PCTP)	Environmental Protection Agency, 86 FR 894, Final Rule, 40 CFR Part 751, Subpart E	≤ 1 % (10000 mg/kg)
Hexachlorobutadiene (HCBD)	Environmental Protection Agency, 86 FR 894, Final Rule, 40 CFR Part 751, Subpart E	Prohibited
Total Lead Content in Substrate Material	CPSIA, Section 101 CPSC-CH-E1001-08.3 (metallic substrates) CPSC-CH-E1002-08.3 (nonmetallic substrates)	≤100 ppm - Exclude mill-dyed and mill printed fabrics and threads. Exclude Natural material in natural state, treated without added lead or substrate with coating removed e.g. leather or fur

Total Lead in Paint or Surface Coating	16 CFR 1303	≤ 90ppm All accessible coating	
Washington Lead, cadmium and phthalates on children's product	Washington Children's Safe Products Act (CSPA)	≤40 ppm Cadmium; ≤90 ppm Lead; ≤1000 ppm Phthalates(6P) (combined).	
New York Toxic chemicals in children's products	The Toxic Free Toys Act (Albany, Suffolk County)	Compound	
		Max. levels in ppm	
		Antimony	60 (soluble)
		Arsenic	25 (soluble)
		Cadmium	75 (soluble)
		Lead in surface coating	90 (soluble)
		Lead in substrates	100 (total)
		Mercury	60 (Soluble)
Sharp Points/Sharp Edges (under 8 years of age)	16 CFR 1500.48/49	Not allowed	
Tracking labels for children's products	Consumer Product Safety Improvement Act of 2008	A permanent and distinguishing mark on the product and its packaging, to the extent practicable, enabling the manufacturer and purchaser to ascertain the name of the manufacturer or private labeler, location and date of production of the product.	
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 (woven)/ ASTM D3887(knit)	Thread Count 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)	< 75 ppm -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)	Whites: 5.5 - 6.5, Others: 6 – 8 Textile: 4.0-8.0 Leather: 3.5-7.5	
Colorfastness to Light	AATCC 16 Option 3 40 hours	Grade 4	
Colorfastness to Pool Water (Swimwear)	AATCC - 162	Medium to dark colors Min. Grade 3.5 Pastels, bright & neon colors Min. Grade 3	
Colorfastness to Sea Water (Swimwear)	AATCC - 106	Shade Change: Grade 4 minimum Staining: Grade 3 minimum Self –Staining: Grade 5/ No Self Staining	

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
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

