

3.4.3 - Minimum Textile Testing Standards for Apparel

All fabric used in Colony Brands apparel is expected to match the contents indicated on the label. The fabric must also comply with flammability regulations designated for the item. The wearability, performance, colorfastness, and durability of the fabric/garment must withstand shipping conditions, storage, and typical washing/wearing by the customer. The following represents the minimum standards that the fabric/garment must meet. (Please note that any combination of these tests may be performed on any item at Colony Brands discretion):

PROPERTY	METHOD	REQUIREMENT
Appearance after Laundering/Dry Cleaning	AATCC 124/143 (Fabric) AATCC 143 (Garment)	Visual assessment satisfactory, no noticeable pilling, distortion, twisting, surface change or color change to fabric
Bursting Strength (Knits) Tensile Strength (Woven)	ASTM D3786 / ASTM D5034	30 lbs. minimum less than 5 oz./sq. yard 40 lbs. minimum 5 oz./sq. yard to 12 oz./sq. yard 60 lbs. minimum 12 oz./sq. yard or greater
Colorfastness to Crocking (dry / wet)	AATCC 8	Standard Apparel and Linings: Dry class 4.0 wet class 3.0 <i>If Standard Apparel and Lining is Lower, Wash Once and Retest.</i> Color block Items: 4.0 Dry, 3.5 Wet Denim: 2.5 Dry, 2.0 Wet
Colorfastness to Dry Cleaning	AATCC 132	Shade Change: Grade 4.0 min. Self Staining: Grade 4.5 min. Color block Items: Grade 4.5 min.
Colorfastness to Laundering: Accelerated	AATCC 61	Standard Apparel: class 3.0 Color block Items: Class 4.5
Colorfastness to non-chlorine bleach	AATCC 172	Class 4.0
Colorfastness to perspiration	AATCC 15	Shade Change: Class 4.0 Staining: Class 3.0 Self Staining: Class 5.0
Colorfastness to Water	AATCC107	Standard Apparel: Shade Change: Class 4.0 Self Staining: Class 3.0 Color block Items: Class 4.5
Colorfastness: Dye Transfer in Storage; Fabr	AATCC 163	Class 4.5
Dimensional Stability (3 wash, 1 dry cleaning)	AATCC 135 (Fabric) AATCC 150 (Garment)	Woven Non-Stretch: 3% x 3% Woven Stretch: 5% x 5% Knit: 6% x 6%
Fabric Weight (From Specification)	ASTM D3776	+/- 10% Weight Tolerance
Fiber Identification (Chemical or Mechanical Separation)	AATCC 20A/ASTM629	Single Fiber: 0% Multiple Fibers: As Per Contract +/- 3%
Flammability	16CFR Part 1610	Class 1 Only
Pilling Resistance	ASTM D3512	Class: 4.0 @ 30 minutes Class: 3.0 @ 60 minutes

Procedure for Appearance of Apparel and Other Textile Products After Repeated Home Laundering (overall appearance evaluation) - 3X cycles	AATCC TS-008	Standard Apparel: class 3.5 Color block Items: 4.5
Seam Extension	ASTM D1683 Mod.	Medium/Heavy (3.5 oz./yd. or Greater): 50% Elongation and/or 7lbs. Breaking Load Light (Less than 3.5 oz./yd.): 30% Elongation and/or 6 lbs. Breaking Load
Seam Slippage Woven	ASTM D1683	Medium/Heavy (3.5 oz./yd. or Greater): 20lbs/in Light (Less than 3.5 oz./yd.): 18lbs/in
Tear Strength (Woven)	ASTM D1424	Medium/Heavy (3.5 oz./yd. or Greater): 3.0 lbs. Light (Less than 3.5 oz./yd.): 1.5 lbs.
Twisting or Torqueing (After 3 launderings/1 dry cleaning)	AATCC 179	5% of Total Length

Date Revised: 09/21/2016