	102-2			
	Woven Fabric	Protocol		
PERFORMANCE Initial Package	TEST METHOD		REQUIRE	MENT
Physical Properties				
Fiber Content	AATCC 20 / 20A 16 CFR 303 Wool Products Labeling Act - 16CFR 300 Fur Products labelling Act - 16CFR 301 Fur Products Identification Act -15 U.S.A 69	One Fiber Only: No Tolerance Two or More Fibers: +/- 3% deviation from the contracted fiber content. Functional Fibers i.e. Spandex: +/- 2% max deviation from the contracted fiber content.		
Yarn Size	ASTM D 1059	Tolerance +/- 5 % Max		
Count	ASTM D 3775	Tolerance +/- 5 % Max		
Fabric Weight Flammability	ASTM D 3776 16 CFR 1610 16 CFR 1615/1616	Deviation from contracted weight (g/m2 OR oz/yd2): +/- 5% maximum Class 1 Non-exempt fabrics must be tested in every color Pass (Acceptance Criteria) The supplier must keep all children's sleep wear test records and samples for a period of 7 years		
Dimensional Change to Home	AATCC 135 (3 washes)/AATCC 158 (3 cycles)	FABRIC TYPE SHRINK		SHRINK
Laundering, Dry Cleaning or Hand Wash	AATCC LP2 (Length X Width)	Plain weave, Twill, Sheeting		3x3
	Tide [®] Powder Detergent (Maximum)	Flannels/Dobby/ Crepe/Gauze/ Crinkle 5x5 Rayon/Seersucker		5x5
			Allow 1% Gro	owth Only
		Dry Clean Items		
		shrinkage %		2x2
		growth %		1x1
Appearance Retention	AATCC/ASTM TS-008 Modified Tide [®] Powder Detergent	SOP)	ble Kohl's Appearance	Evaluation Requirements (Refer KAR
		Torque	Tier 1	Tier 2
Tanaila Strongth	ASTM D 5034		3%	2%
Tensile Strength	in lbs. (min)		Tier 1	Tier 2
	in 153. (min)	<pre><!--= 3.0 oz/sq yd</pre--></pre>	20 x 15	20x20
		3.1 to 6 oz sq /yd 6.1 to 9 oz/sq yd	25x20 40 x35	30x25 45 x 40
		>9oz/ sq yd	60x40	75 x 50
Tear Strength	ASTM D 1424 in lbs. (min)	< /= 3.0 oz/sq yd	1.5x1.0	2.0 x 1.5
		3.1 to 6 oz sq /yd	2.0x1.5	2.5x2.0
		6.1 to 9 oz/sq yd	2.5x2.0	3.0x2.0
		>9oz/ sq yd	3.5 x 3.0	3.5 x 3.0
Seam Slippage	ASTM D 434	< /= 3.0 oz/sq yd	15	20
Record as fail, if seam slippage is more	in lbs. (min)	3.1 to 6 oz sq /yd	20	25
than 1/4" at 15 lb load(Lab to use		6.1 to 9 oz/sq yd	25	30
standard seams).		>9oz/ sq yd	30	35
Softlines Regulatory Supplemental Protocol	Refer to Protocol 501			quirements of the Softlines Regulatory tional testing or labeling is required.
Colorfastness		Supplemental Flotoco		tional testing of labeling is required.
Colorfastness to Chlorine AND Non- Chlorine Bleach	AATCC/ASTM TS-001	Shade Change: Grade 4 min		
Colorfastness to Crocking	AATCC 8/116	All fabrics (except list	ed below):	
	Original State	Dry	4.0	
	If results fail in original state, perform after 1 Wash/Dry Cycle	Wet	3.0	
	(Minimum)	Pigment Dyed/Printed	, Lightly Brushed, San	d Washed, Piled, Sulphur, Denim, Indigo
		Dry		3.5
		Wet		2.0
Analytical				
Formaldehyde	Kohl's TM-5 (only for 4 years and up) JIS L 1041:2011 – Sec. 8.1.3 & 8.1.4 Method B	Negative, If Spot Test is Positive, proceed with step 2 Children <u>over 5T</u> & Adults = 75 ppm max.		
nH Valua		Children's 0-5T = 20 ppm max.		
pH Value Performance Claims Protocol (401)	AATCC 81 Refer to Protocol 401	All Colorways: 5.0 – 8.0 (no tolerance) All samples shall be reviewed against the requirements of the Performance Claims		
		Protocol to determine		
ADDITIONAL COLORWAY TESTING Flammability	16 CFR 1610 16 CFR 1615/1616	Class 1 Non-exempt fabrics must be tested in every color Pass (Acceptance Criteria) The supplier must keep all children's sleep wear test records and samples for a period of		

JIS L 1041:2011 –		
	Children over 5T & Ad	hulte = 75 ppm may
Sec. 8.1.3 & 8.1.4 Method A or B		
AATCC 81		
	Must meet all applicable Kohl's Appearance Evaluation Requirements (Refer KAR	
	SOP)	sie kom s'Appearance Evaluation Requirements (keier KAK
AATCC/ASTM TS-001	Shade Change: Grade 4 min	
Original State If results fail in original state, perform after 1 Wash/Dry Cycle (Minimum)	All fabrics (except liste	ed below):
		4.0 min
	Wet	3.0 min
	Pigment Dyed/Printed, Lightly Brushed, Sand Washed, Piled, Sulphur, Denim, Indigo & Silk blends:	
	Drv	3.5 min
	Wet	2.0 min
ITIONAL COST		
	Shade Change : Grade	4 min
, , , , , , , , , , , , , , , , , , ,	Self Staining: Grade 4 min Multi-fiber Staining: Grade 4.0 min	
AATCC 106	Shade Change : Grade 3.5 min Self Staining: Grade 4 min Multi-fiber Staining: Grade 4.0 min	
AATCC 162	Shade Change: Grade 3.5 min	
ASTM D4685 Modified Option B	Face: 250 Cycles, Grade 3.5 min. Back: 50 Cycles, Grade 3.0 min.	
AATCC 15	Shade Change : Grade 4 min	
	Self Staining: Grade 4 r	min
	Multi-fiber Staining: G	rade 4.0 min
AATCC 16.3-2012	All Colors (except listed below):	
	Shade Change:	
	10 AFU: Grade 4.0 min	
	20 AFU: Grade 3.5 min	
	Neons/Brights/Whites/Pastels:	
	Shade Change:	
	10 AFU: Grade 3.0 min	
	20 AFU: Grade 2.0 mir	
ASTM D4964-96(2012) E1 Modification: Take two 7.0 inch long width specimens from the thigh area of the garment, align the panels with face side out, stitch the two panels and parallel to the width of the specimen. Place another stitch at 5.0 inch from the first stitch, to create 5.0 inch loop circumference specimen	To be recorded as I Growth: after 60 sec Growth: after 30 mir PASS/FAIL: Recovery: 85% min a Report modulus at 30 Report Elongation at	conds nutes after 30 min. 0%, 50% & 70%.
	AATCC 8/116 Original State If results fail in original state, perform after 1 Wash/Dry Cycle (Minimum) TIONAL COST AATCC 107 AATCC 106 AATCC 106 AATCC 162 AATCC 162 AATCC 162 AATCC 15 AATCC 15 AATCC 15 AATCC 15 AATCC 15 AATCC 16.3-2012 10 AFU & 20 AFU ASTM D4964-96(2012) E1 Modification: Take two 7.0 inch long width specimens from the thigh area of the garment, align the panels with face side out, stitch the two panels and parallel to the width of the specimen. Place another stitch at 5.0 inch from the first stitch, to create 5.0 inch loop	AATCC/ASTM TS-008 Modified Tide * Powder Detergent AATCC/ASTM TS-001 AATCC 8/116 Original State, perform after 1 Wash/Dry Cycle (Minimum) Wet TIONAL COST AATCC 107 AATCC 107 AATCC 107 AATCC 106 AATCC 106 AATCC 106 AATCC 162 AATCC 162 AATCC 162 AATCC 162 AATCC 163-2012 10 AFU & 20 AFU 10 AFU & 20 AFU AATCC 163-2012 10 AFU & 20 AFU AATCC 164-36(2012) E1 Modification: Take two 7.0 inch long width specimens from the thigh area of the garment, align the panels with face side out, stitch the two panels and parallel to the width of the specimen. Place another stitch 100 ACTCM 2010 AFU & 20 inch long width specimens from the thigh area of the garment, align the panels with face side out, stitch the two panels and parallel to the width of the specimen. Place another stitch 100 ACTCM 200 inch long width specimens from the thigh area of the garment, align the panels with face side out, stitch the two panels and parallel to the width of the specimen. Place another stitch 100 ACTCM 200 inch long width specimens from the first stitch, to create 5.0 inch long Modules 41 ACTCM 200 inch long width specimens from the first stitch, to create 5.0 inch long ACTCM 200 inch long width specimens from the first stitch, to create 5.0 inch long ACTCM 200 inch long width specimens from the first stitch, to create 5.0 inch long ACTCM 200 inch long width specimens from the first stitch, to create 5.0 inch long ACTCM 200 inch long width specimens from the first stitch, to create 5.0 inch long ACTCM 200 inch long width specimens from the first stitch, to create 5.0 inch long ACTCM 200 inch long width specimens from the first stitch, to create 5.0 inch long ACTCM 200 inch long width specimens from the first stitch, to create 5.0 inch long ACTCM 200 inch long width specimens from the first stitch, to create 5.0 inch long ACTCM 200 inch long and the panels ACTCM 200 inch long and the panels ACTCM 200 inch long width specimens from the first stitch, to create 5.0 inch long ACTCM 200 in

(*) asterisk = ALL COLORWAYS MUST BE TESTED

Minimum Sample Size Necessary for Testing

Initial Package : 3 yards of full width fabric in darkest color

Additional Colorway : 1 yard of full width fabric in all colors.

Additional samples may be needed for items that contain two care instructions, i.e. "For Best Results, Dry Clean". Please consult with approved lab for the number of samples. **Please refer to Kohl's preferred third party labs for individual and optional testing pricing

If Formaldehyde Spot Test is found positive, additional charges will incur for additional testing.

For sizes 0-5T, Formaldehyde will be added as a separate charge as it is a mandatory test for this category. If Colorfastness to Crocking fails in the original state, additional charges will be incurred for testing after 1 wash.

Turn Around Time = 4 working days

Care Instructions with "line dry or flat dry" may require an additional day.

PROTOCOL VERSION	DESCRIPTION OF CHANGE	DATE REVISION / APPROVED BY
103-1	 Colorfastness to Abrasion-Frosting Test – Removed from Optional Testing Pilling Resistance Test – Removed from Optional Testing Ageing of Sulphur Dyed Fabrics Test – Changed test method option to Option 7.1 – Oven Aging Tensile Strength – Changed requirements to: <2.0 oz/sq.yd – 15 lbs. min 2 to < 4.0 oz/sq.yd – 25 lbs. min 4.0 - < 8.0 oz/sq.yd – 35 lbs. min 8.0 oz/sq.yd – 45 lbs. min 	April 2007/ Ro Jain
103-2	 Appearance Retention (KAR) – Method has been changed to AATCC/ASTM TS-008 Modified. Yarn Size & Fabric Count – Changed requirement +/- 5% to Report Actual Data. Colorfastness to Accelerated Laundering/Dry Cleaning – Test has been removed. Have been added to Appearance Retention test. Colorfastness to Crocking - Test specimen to be tested original state and after 1 wash/dry cycle. Colorfastness to Light – Changed evaluation 20 AFU to 10 AFU & 20 AFU. Added requirement 3.0 for colors: Neons/Brights/Pastels and Whites. Pile Retention Test – Modified method to Option B- Face: 250 cycles Back: 50 cycles Formaldehyde Content – Test to be used on all products. Changed requirement to: Children over 36 months & Adults = 75 ppm max. Infants under 36 months = 0.05 Absorbency max. Stretch Properties – Changed requirements: Use a 4 lbs. load for any wovens with spandex. Refer to page 3 of this protocol for requirements. 	Nov. 2008/Ro Jain
103-3	 Removed - No tolerance allowed for wool/wool blend products under the Fiber Content Protocol Combined Formaldehyde spot test and full test & updated test method Revised Requirement: Colorfastness to Chlorinated Pool Water- Fiber Reactive Dyes-Grade 2.5 Revised Requirement: Colorfastness to Light- Neons/Brights/White/Pastels: Shade Change: 10AFU: Grade 3.0 and 20AFU: Grade 2.5 Stretch Properties – modified load / updated requirement 	Nov.2009/Ro Jain
103-4	 Fiber Content Added the Fur labeling and Identification acts and wool #16 cfr 300 Analytical: Formaldehyde-added Kohl's TM-5 Stretch & Recovery: Added "MODIFIED" Removed Aging of sulphur dyed etc. section Added Pile retention for faux fur, velour – Kohl's TM-19 	Nov. 2011/Ro Jain

PROTOCOL VERSION	DESCRIPTION OF CHANGE	DATE REVISION / APPROVED BY
Revised 102-5 (combined	Changed to Woven Fabric Protocols Added:	Sept 2013 /Vinoth Deenadayalan
103,104,105)	PH Seam slippage	
	Modified:	
	Formaldehyde requirements	
	Cf to Perspiration	
	Cf to light	
	Cf to crocking on pigments, indigo dyed	
	Stretch and recovery	
102-6	1) Removed pricing for testing/took out Intertek/added approved lab statement	October 6th 2014/Nov. 31 2014/Leah Gross-Hutchison
102-7	1) Updated pH for whites	9/2015- Michelle Zydek
102-8	1) Update pH for Whites	4/2016-Jackie Deppisch
102-9	1) Updated Formaldehyde age range from 0-4T to "0-5T"	4/2017 - Becky Becker
102-10	1) Updated crocking requirements to read: Pigment Dyed/Printed, Lightly Brushed, Sand Washed, Piled, Sulphur, Denim, Indigo & Silk blends:	5/2017 Becky Becker
102-11	1) Updated pH values to 5.0-8.0 (zero tolerance)	October 2018 - Becky Becker
102-12	 1)Updated Dimensional Stability Requirements 2) Removed Tiers from Colorfastness to Crocking 	November 2018/ Jackie Deppisch
102-13	 1) Updated Fabric Count test to be ASTM D3775 2) Removed "Ultra" from Tide detergent for Appearance Retention testing and Dimensional Change 3) Updated Formaldehyde testing to be most current 4) Added back pH value AATCC 81 test method 	December 2018/Charlene Swanson
102-14	1) Updated pile retention to ASTM D4685	April 2019/Charlene Swanson
102-15	1) Updated Count to only show woven's req	April 2019/Jackie Deppisch
102-16	1) Updated Dimensional Stability handwash test method to AATCC LP2	April 2019/ Becky Becker
102-17	1) Added Tension & Elongation testing	June 2019/Jackie Deppisch
102-18	1) Updated S&R requirements	November 2019/Jackie Deppisch
102-19	 Updated formaldehyde to just have method B listed Updated dryclean to be 3 cycles instead of 1 cycle 	January 2020/Charlene Swanson
102-20	1) Updated S&R requirements	February 2020/Jackie Deppisch
102-24	1) Updates to Tiers	August 2021/ Jackie Deppisch
102-25	1) Updated formatting of document	September 2021/Charlene Swanson
102-26	1) Added test line for all performance claims	March 2022 / Becky Becker
102-27	1) Added Reference to Protocol 501	October 2022 / Kevin Makocy
102-28	1) Updated S&R Recovery requirements from 60 seconds to 30 min.	March 2023/ Jackie Deppisch