|  | 101-36<br>Keit Sabria Brotand   |   |  |                |               |
|--|---|---|--|----------------|---------------|
| PERFORMANCE  | Knit Fabric Protocol<br>TEST METHOD   |   | REQUIREMENT  |                |               |
| Initial Package  |   |   | <b>_</b>   |                |               |
| Physical Properties  |   |   |  |                |               |
| Fiber Content  | AATCC 20 / 20A<br>16 CFR 303<br>Wool Products Labeling Act- 16 CFR 300<br>Fur Products labelling Act - 16 CFR 301<br>Fur Products Identification Act -15 U.S.A 69 |   | e<br>deviation from the contracted fiber content.<br>x: +/- 2% max deviation from the contracted |                |               |
| Yarn Size  | ASTM D 1059   | Tolerance +/- 5 % Max   |  |                |               |
| Count  | ASTM D 3887,<br>AATCC/ASTM TS-002   | Tolerance +/- 5 % Max   |  |                |               |
| Fabric Weight  | ASTM D 3776   | Deviation from contracted w   | /eight (g/m² OR oz/y   | d²): +/- 5% ma | iximum        |
| Flammability   | 16 CFR 1610<br>16 CFR 1615/1616   | Class 1<br>Non-exempt fabrics must be<br>Pass (Acceptance Criteria)<br>The supplier must keep all cl<br>a period of 7 years | tested in every color<br>nildren's sleep wear test records and samples fo                        |                |               |
| Dimensional Change to Home<br>Laundering, Dry Cleaning or Hand | AATCC 135 (3 washes)/AATCC 158 (3 cycles)<br>AATCC LP2  | FIBER CONTENT   | FABRIC T   | YPE            | SHRINK        |
| Wash   | (Length X Width)  |   | Jersey   | /              | 6x6           |
|  | Tide * Powder Detergent   | 100% COTTON   | Interlock, 1x1 r   | ib, 2x2 rib    | 8x8           |
|  | Note: For low shrink programs refer to Performance Claims   | 100/0 COTTON  | French T   | erry           | 8x8           |
|  | Protocol 401-15   |   | Thermal (w   | /affle)        | 8x8           |
|  |   |   | Jersey   | /              | 6x6           |
|  |   |   | Pique  |                | 6x6           |
|  |   | CVC & Cotton Rich Stretch   | Interlock, 1x1 rib, 2x2 rib  |                | 8x8           |
|  |   |   | Fleece, French Terry   |                | 8x8           |
|  |   |   | Thermal (waffle)   |                | 8x8           |
|  |   | 100% POLY   | Jersey, Interlock  |                | 5x5           |
|  |   | (All Synthetics)  | 1x1 rib, 2x2 rib   |                | 6x6           |
|  |   |   | Fleece, French Terry   |                | 5x5           |
|  |   | POLY/COTTON<br>(All Synthetics)   | Jersey, Interlock  |                | 5x5           |
|  |   |   | 1x1 rib, 2x2 rib   |                | 6x6           |
|  |   |   | Fleece, French Terry   |                | 5x5           |
|  |   | 100% RAYON,<br>Rayon/Spandex,<br>Poly/Rayon,  | Jersey   | /              | 6x6           |
|  |   | Poly/Rayon/Span<br>(All Synthetics)   | 1x1 rib, 2x2 rib 6x  |                | 6x6           |
|  | Dry Cleaning (3 cycles)   | All   | Fabrics  |                | 2x2           |
|  |   | Allow 1% Growth Only  |  |                |               |
| Appearance Retention   | AATCC/ASTM TS-008 Modified<br>Tide * Powder Detergent   | Must meet all applicable Kol<br>KAR SOP)  | hl's Appearance Evaluation Requirements (Re  |                | ements (Refer |
|  |   | L   | Tier 1   |                | er 2          |
| Durating Chron-th  |   | Torque  | 5%   |                | %             |
| Bursting Strength  | ASTM D 3786   | lb/sq inch  | Tier 1   |                | er 2          |
|  |   | < /= 4 oz/ sq yd  | 30<br>40   |                | 10            |
|  |   | > 4 oz/ sq yd<br>> 12 oz/sq yd  | 40<br>50   |                | 50<br>50      |
|  |   | > 12 oz/sq yd<br>Lace, mesh etc   | 50<br>15   |                | 50<br>15      |
| Performance Claims Protocol                                    |   | All samples shall be review   |  |                |               |
| (401)  | Refer to Protocol 401   | Performance Claims Proto  |  |                |               |
| Softlines Regulatory   |   | All samples shall be review   |  |                |               |
| Supplemental Protocol  | Refer to Protocol 501   | Regulatory Supplemental   |  |                |               |
| Colorfastness  |   |   |  |                |               |
| Colorfastness to Chlorine AND Non-<br>Chlorine Bleach          | AATCC/ASTM TS-001   | Shade Change: Grade 4 min   |  |                |               |
| Colorfastness to Crocking                                      | AATCC 8/116   | All fabrics (except listed below):  |  |                |               |
|  | Original State  | dry 4.0   |  |                |               |
|  | If results fail in original state, perform after 1 Wash/Dry Cycle   | wet 3.0   |  |                |               |
|  |   | Pigment Dyed/Printed, Lightly Brushed, Sand Washed, Piled, Sulphur, Denim   |  |                |               |
|  |   | Indigo & Silk blends:   |  |                |               |
|  |   | dry   |  |                |               |
|  |   | wet   | 2.0  |                |               |

| Analytical   |   |  |
|--|---|--|
| Kohl's TM-5 (only for 4 years and up)                | Negative, If Spot Test is Positive, proceed with step 2                   |  |
| JIS L 1041:2000 –                                    | Children over 5T & Adults = 75 ppm max.                                   |  |
| Sec. 5.3.1 (2) Method B, JIS Water Extraction Method | Children's 0-5T = 20 ppm max.   |  |
| AATCC 81   | Requirement: 5.0 - 8.0 (No Tolerance)                                     |  |
|  | JIS L 1041:2000 –<br>Sec. 5.3.1 (2) Method B, JIS Water Extraction Method |  |

| ADDITIONAL COLORWAY TESTING            |  |  |                     |                  |                   |
|--|--|--|---------------------|------------------|-------------------|
| Flammability                           | 16 CFR 1610  | Class 1  |                     |                  |                   |
|  | 16 CFR 1615/1616   | Non-exempt fabrics must be tested in every color |                     |                  |                   |
|  |  | Pass (Acceptance Criteria)                       | ,                   |                  |                   |
|  |  | The supplier must keep all c                     | hildren's sleep wea | r test records a | and samples for   |
|  |  | a period of 7 years                              |                     |                  |                   |
| Formaldehyde                           | Kohl's TM-5 (only for 4 years and up)                                | Negative, If Spot Test is Pos                    | itive proceed with  | sten 2           |                   |
| , ormalacriyac                         | JIS L 1041:2000 –  | Children over 5T & Adults =                      |                     | Step 2           |                   |
|  | Sec. 5.3.1 (2) Method B, JIS Water Extraction Method                 | Children's 0-5T = 20 ppm ma                      |                     |                  |                   |
| pH Value                               | AATCC 81   | Requirement: 5.0 - 8.0 (No                       |                     |                  |                   |
|  | AATCC 81<br>AATCC/ASTM TS-008 Modified                               |  |                     | aluation Docui   | in a sector       |
| Appearance Retention                   |  | Must meet all applicable Ko                      | ni s Appearance Ev  | aluation Requi   | rements           |
|  | Tide <sup>®</sup> Powder Detergent                                   |  |                     |                  |                   |
| Colorfastness to Chlorine AND Non-     | AATCC/ASTM TS-001  | Shade Change: Grade 4 min                        |                     |                  |                   |
| Chlorine Bleach                        |  |  |                     |                  |                   |
| Colorfastness to Crocking              | AATCC 8/116  | All fabrics (except listed bel                   | <u>ow):</u>         |                  |                   |
|  | Original State   | dry  | 4.0                 |                  |                   |
|  | If results fail in original state, perform after 1 Wash/Dry Cycle    | wet  | 3.0                 |                  |                   |
|  |  | Pigment Dyed/Printed, Light                      | tly Brushed, Sand V | Vashed, Piled, S | Sulphur, Denim,   |
|  |  | Indigo & Silk blends:                            |                     |                  |                   |
|  |  | dry  | 3.5                 |                  |                   |
|  |  | wet  |                     |                  |                   |
| REQUIRED WHERE APPLICABLE AT AI        |  |  | 2.0                 |                  |                   |
| Colorfastness to Water *               | AATCC 107  | Shade Change : Grade 4 min                       | 1                   |                  |                   |
|  | AATCC 107  | -  |                     |                  |                   |
| (Color block fabrics & contrast trims) |  | Self Staining: Grade 4 min                       | 1.0 main            |                  |                   |
|  |  | Multi-fiber Staining: Grade 4                    |                     |                  |                   |
| Colorfastness to Sea Water *           | AATCC 106  | Shade Change : Grade 3.5 m                       | in                  |                  |                   |
| (Swimwear Only)                        |  | Self Staining: Grade 4 min                       |                     |                  |                   |
|  |  | Multi-fiber Staining: Grade 4                    | 1.0 min             |                  |                   |
| Colorfastness to Chlorinated Pool      | AATCC 162  | Shade Change: Grade 3.5 mi                       | in                  |                  |                   |
| Water *                                |  |  |                     |                  |                   |
| (Swimwear Only)                        |  |  |                     |                  |                   |
| Pile Retention                         | ASTM D4685   | Face: 250 Cycles, Grade 3.5 min.                 |                     |                  |                   |
| (Velvet, Velveteen, Velour, Corduroy,  | Modified Option B  | Back: 50 Cycles, Grade 3.0 min.                  |                     |                  |                   |
| and Faux Fur)                          |  | Buck so cycles, crude s.o n                      |                     |                  |                   |
| Colorfastness to Perspiration – Acid   | AATCC 15   | Shada Chango - Grado 4 min                       |                     |                  |                   |
| Only *                                 | AATCC 15   | Shade Change : Grade 4 min                       |                     |                  |                   |
| •                                      |  | Self Staining: Grade 4 min                       | 0                   |                  |                   |
| (Activewear/Intimates/Linings)         |  | Multi-fiber Staining: Grade 4                    | 4.0 min             |                  |                   |
| Colorfastness to Light*                | AATCC 16.3-2012  |  |                     |                  |                   |
| (Acvive/Outerwear/Swimwear)            |  |  |                     |                  |                   |
|  | 10 AFU & 20 AFU  |  |                     |                  |                   |
|  |  | All Colors (except listed belo                   | awlichada Changa    | 10 AEU: Crade    | 4.0 min 20 AEI    |
|  |  | All colors (except listed bei                    | UWI.SHAUE CHAIlge   | . 10 AFO. GIAUE  | 2 4.0 IIIII 20 AF |
|  |  |  |                     |                  |                   |
|  |  |  |                     |                  |                   |
|  |  |  |                     |                  |                   |
| Pilling                                | ASTM D 3512  |  | Tier 1              | Т                | ier 2             |
| (Activewear / Outerwear)               | 10100 0012   |  | 3.5                 | -                | 4.0               |
| (incluence) / Outerwear)               |  | 60 Min   |                     |                  | 3.5               |
| Chuckola & Decements /Tomaton O        |  |  |                     | 1                | ر.ر               |
| Stretch & Recovery /Tension &          | ASTM D4964-96(2012) E1   | To be recorded as DATA ON                        |                     | an officer CO -  | anda 8 20         |
| Elongation                             |  | Growth: Report Elongated d                       | istance & percenta  | ige atter 60 sec | unas & 30         |
| **For fabrics containing Spandex       | Modification: Take two 7.0 inch long width specimens from a large    |  |                     |                  |                   |
| **Loose fitting- Note in test report   | area of the fabric, align the panels with face side out, stitch the  | PASS/FAIL:                                       |                     |                  |                   |
| (if available)                         | two panels and parallel to the width of the specimen. Place          | 5.0 inch Recovery: 85% min. after 30 minutes     |                     |                  |                   |
|  | another stitch at 5.0 inch from the first stitch, to create 5.0 inch |  |                     |                  |                   |
|  | loop circumference specimen  | Report modulus at 30%, 50%                       | 6 & 70%.            |                  |                   |
|  |  | Le es sous                                       |                     |                  |                   |
|  |  | Report Elongation at 10 lbs                      |                     |                  |                   |
|  | **If fabric submission is too small - take the largest size possible | Report Elongation at 10 lbs                      |                     |                  |                   |
|  | **If fabric submission is too small - take the largest size possible | Report Elongation at 10 lbs                      |                     |                  |                   |

## (\*) 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 0-4T, 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

| PROTOCOL VERSION       | DESCRIPTION OF CHANGE  | DATE REVISION / APPROVED BY                      |
|------------------------|--|--|
| 101-1                  | 1. Fabric Count = Added test method AATCC/ASTM TS-002  | April 2007/Ro Jain                               |
|                        | 2. Colorfastness to Abrasion-Frosting Test – Removed from  |  |
|                        | Optional Testing   |  |
|                        | 3. Pilling Resistance Test – Removed from Optional Testing   |  |
|                        | <ol><li>Ageing of Sulphur Dyed Fabrics Test – Changed test method</li></ol>                                    |  |
|                        | option to Option 7.1 – Oven Aging  |  |
| 101-2                  | 1. Appearance Retention (KAR) – Method has been changed to   | Nov. 2008/ Ro Jain                               |
|                        | AATCC/ASTM TS-008 Modified.  |  |
|                        | 2. Yarn Size & Fabric Count – Changed requirement +/- 5% to  |  |
|                        | Report Actual Data. 3. Bursting Strength – Changed requirements  |  |
|                        | 4. Colorfastness to Accelerated Laundering/Dry Cleaning – Test   |  |
|                        | has been removed. Have been added to Appearance Retention  |  |
|                        | test.  |  |
|                        | 5. Colorfastness to Crocking - Test specimen to be tested original   |  |
|                        | state and after 1 wash/dry cycle.  |  |
|                        | 6. Colorfastness to Light – Changed evaluation 20 AFU to 10 AFU &  |  |
|                        | 20 AFU. Added requirement 3.0 for colors: Neons/Brights/Pastels  |  |
|                        | and Whites.  |  |
|                        | <ol><li>Pile Retention Test – Changed test method to Intertek Hong</li></ol>                                   |  |
|                        | Kong Method 026: Requirement =   |  |
|                        | Level of Pile Shedding = 3.5   |  |
|                        | Weight of Fiber Removed = 1.5%   |  |
|                        | 8. Formaldehyde Content – Test to be used on all products.   |  |
|                        | Changed requirement to:  |  |
|                        | Children <u>over</u> 36 months & Adults = 75 ppm max.<br>Infants <u>under</u> 36 months = 0.05 Absorbency max. |  |
|                        | 9. Stretch Properties – Changed requirement:   |  |
|                        | Use a 5 lbs. load for any knits with spandex. Refer to page 3 of this  |  |
|                        | protocol for requirements.   |  |
| 101-3                  | 1. Removed – No tolerance allowed for wool/wool blend products   | Nov.2009/Ro Jain                                 |
|                        | under the Fiber Content Protocol   |  |
|                        | 2. Combined Formaldehyde spot test & full test into one line &   |  |
|                        | updated test method  |  |
|                        | 3. Revised Requirement: Colorfastness to Chlorinated Pool Water-   |  |
|                        | Fiber Reactive Dyes-Grade 2.5  |  |
|                        | 4. Revised Requirement: Colorfastness to Light-  |  |
|                        | Neons/Brights/White/Pastels: Shade Change: 10AFU: Grade 3.0  |  |
|                        | and 20AFU: Grade 2.5   |  |
|                        | 5.Stretch Properties – modified load (4 lbs ) / updated  |  |
|                        | requirements   |  |
| 101-4                  | 1. Fiber Content   | Nov. 2011/Ro Jain                                |
|                        | Added the Fur labeling and Identification acts and wool #16 cfr  |  |
|                        | 300<br>2. Analytical   |  |
|                        | Formaldehyde-added Kohl's TM-5   |  |
|                        | 3. Updated Tide to "Ultra"   |  |
|                        | 4. Bursting Strength   |  |
|                        | (Lace/mesh, etc. revised to 15 lbs.)   |  |
|                        | 5. Pile Retention  |  |
|                        | Updated to Kohl's TM-19  |  |
|                        | 6. Stretch & Recovery  |  |
|                        | Added "MODIFIED"   |  |
|                        | 7. Removed   |  |
|                        | -Aging of sulphur dyed etc. section  |  |
| 101-5                  | Added :  | September 2013 / Vinoth Deenadayalan             |
| (combined 101,102,105) | рН   |  |
|                        | Pilling test for Active wear/ Intimates / Swimwear   |  |
|                        | Modified :   |  |
|                        | Formaldehyde requirements for Children 0-4T, Test Method   |  |
|                        | CF to water and Perspiration requirements  |  |
|                        | Cf to crocking ratings   |  |
|                        | Dimensional Stability test requirements  |  |
|                        | stretch and recovery requirements (>10% spx)   |  |
| 101-6                  | Cf to light test method.<br>1) Revised Pilling Test ( removed Pilling test requirement from                    | September 2014 / Vinoth Deenadayalan             |
| 101-0                  | sleepwear fabrics)   | September 2014 / VINULII Deenauayalan            |
| 101-7                  | 1) Removed pricing for testing/removed Intertek/added 3rd party  | October 6th, 2014/Nov. 30th/Leah Gross-Hutchison |
|                        | lab statement  |  |
| 101-8                  | 1) Updated PH for Whites   | 09/2015: Michelle Zydek                          |

| 101-9  | 1) Updated requirement for pH (whites only)                                      | 4/2016- Jackie Deppisch                   |  |
|--------|--|---|--|
| 101-10 | 1) Updated Stretch & Recovery Requirements                                       | 5/2016- Jackie Deppisch                   |  |
| 101-11 | 1) Updates to Stretch & Recovery   | 6/2016-Jackie Deppisch                    |  |
| 101-12 | 1) Updated Formaldehyde age range from 0-4T to "0-5T"                            | 4/2017 - Becky Becker                     |  |
| 101-13 | <ol> <li>Updated crocking requirements to read: Pigment Dyed/Printed,</li> </ol> | 5/2017 Becky Becker                       |  |
|        | Lightly Brushed, Sand Washed, Piled, Sulphur, Denim, Indigo & Silk               |   |  |
|        | blends:  |   |  |
| 101-14 | 1) Updated pH level to 5.0 - 8.0 (No tolerance)                                  | 7/2018 Becky Becker                       |  |
| 101-15 | 1) Update Dimensional Stability Requirements                                     | 8/2018 Becky Becker                       |  |
| 101-16 | 1) Added Back Dry Cleaning Requirements for Dimensional                          | 10/2018 Becky Becker                      |  |
|        | Stability  |   |  |
| 101-17 | 1) Removed Ultra from Tide detergent   | 12/2018- Jackie Deppisch/Charlene Swanson |  |
|        | 2) Updated Stretch & Recovery Requirements                                       |   |  |
| 101-18 | 1) Updated S&R DATA ONLY information to include elongation                       | 1/2019- Jackie Deppisch                   |  |
| 101-19 | 1) Updated Pile Retention to ASTM D4685 Option B Method                          | 4/2019 - Charlene Swanson                 |  |
| 101-20 | 1) Update S&R requirements   | 4/2019- Jackie Deppisch                   |  |
| 101-21 | 1) Updated Handwash Test Method to AATCC LP2                                     | 4/2019 - Becky Becker                     |  |
| 101-22 | 1) Added Tension & Elongation test method  | 5/19- Jackie Deppisch                     |  |
| 101-23 | 1) Added Pique to CVC & Cotton Rich Stretch for Dimensional                      | 7/19 - Charlene Swanson                   |  |
|        | Change   |   |  |
| 101-24 | 1) Updated Stretch & Recovery Requirements                                       | November 2019/Jackie Deppisch             |  |
|        | 2) Updated Tension & Elongation Requirements                                     |   |  |
| 101-25 | 1) Updated all dry cleaning to 3 cycles in stead of 1 cycle                      | January 2020/Charlene Swanson             |  |
| 101-26 | 1) Updated S&R TM  | February 2020/ Jackie Deppisch            |  |
| 101-27 | 1) Updated Stretch & Recovery requirements                                       | March 2020/Charlene Swanson               |  |
| 101-28 | 1) Updated requirements for S&R to be applicable to fabric                       | March 2020/Charlene Swanson               |  |
| 101-29 | 1) Updated S&R to be more clear since applicable to fabric                       | April 2020/Charlene Swanson               |  |
| 101-30 | 1) Update Tiering  | August 2021/ Jackie Deppisch              |  |
| 101-31 | 1) Updated formatting  | September 2021/Charlene Swanson           |  |
| 101-32 | 1) Updated formatting so CF to chlorine bleach was visible                       | October 2021/Charlene Swanson             |  |
| 101-33 | 1) Added Performance Claims Protocol (401) testline                              | March 2022/ Becky Becker                  |  |
| 101-34 | 1) Added c/f light test method to "REQUIRED WHERE APPLICABLE                     | August 2022/ Jackie Deppisch              |  |
|        | AT ADDITIONAL COST" section of protocol  |   |  |
| 101-35 | 1) Added Reference to Protocol 501   | October 2022 / Kevin Makocy               |  |
| 101-36 | 1) Updated Bursting Strength requirements to match 201                           | May 2023/ Jackie Deppisch                 |  |