

PROTOCOL # 703-28

Shower Curtains/Shower Liners

Performance Test	Test Method	Requirement
Initial Package		
Label Verification		
Label Review	Care Labeling 16 CFR 423 16 CFR 300/ 19 CFR 134 Textile Fiber Products Identification Act 16 CFR 303 Wool Products Labeling Act	Verify Information on TRF matches the label Fiber content, Care, Country of Origin, Manufacturers Registration Number, Wool Products Registration Number must meet Federal Standards If labeling or packaging is not attached to product, artwork must be provided
Tracking Label: Children's product: ALL ages	Consumer Product Safety Improvement Act of 2008 (CPSIA) SEC. 103	Refer to Kohl's Tracking Label Section in the Labeling Guideline Policy. Following information must be provided: Retailer's Name (Kohl's) Style Number/Name Factory Number Date (Month/Year)
Adult Tracking Label: <i>**If space limitations exist, contact Kohl's Quality Assurance team to discuss minimum required information (quality.assurance@kohls.com).**</i>	Kohl's Requirement	TO BE MARKED AS PASS/FAIL Can be included on packaging when necessary: Kohl's Assigned Factory Number Manufacture Date (Month/Year) UPC #
Packaging Review Actual packaging or artwork must be provided	FPLA/ UPLR 16 CFR 500 & 19 CFR 134	Should be legibly marked with the following information and verified: -Distributor's name, trademark or other means of identification of the manufacturer or packer and address (City, State, Zip) -Product identification - Net quantity of the contents in terms of weight, measure or numerical count (metric & US standard) or a combination so as to give accurate information and facilitate value comparison by the consumer (if applicable) -Country of origin (if imported) -Product Size (if applicable) Refer to Kohl's FPLA/ UPLR guideline
Performance Claims for Home Textile Products (1000)	Refer to Protocol 1000	All samples shall be reviewed against the requirements of the Performance Claims for Home Textile Products Protocol to determine if additional testing or labeling is required

Physical Properties		
Fiber Content	AATCC 20/ 20A Wool Products Labeling Act	One Fiber Only: No Tolerance Two or More Fibers: +/- 3% max deviation from contracted fiber content Functional Fibers i.e. Spandex: +/- 2% max deviation from contracted fiber content
Count	ASTM D 3775/ ASTM 3887/ AATCC/ASTM TS-002	Report Actual Data
Fabric Weight	ASTM D 3776 Option C	Report Actual Data
Product Size	Kohl's TM-8	If claimed on packaging: Refer to Kohl's Private Brands Construction Standards document (under TD tab) for tolerances If not claimed on packaging: Report Actual
Performance Test	Test Method	Requirement
Analytical		
Tech Pack Verification* (Needs to be provided - Lab HOLD if not provided)	Visual Check	Verify all claims mentioned in Tech Pack file
Yarn Size	ASTM D 1059	Contracted Yarn Size: +/- 5% max deviation
Flammability	ASTM D 1230	Class 1
Flammability (vinyl products only)	16 CFR 1611	Shall not exceed 1.2 inches/ second
Formaldehyde - Adults & children over 5T	Kohl's TM-5 JIS L 1041:2011 Sec. 8.1.3 & 8.1.4 Method A or B	Negative, If Spot Test is Positive/ inconclusive, proceed with step 2 Children over 5T & Adults = 75 ppm max.
Formaldehyde - Children's 0-5T	JIS L 1041:2011 Sec. 8.1.3 & 8.1.4 Method A or B	Children 0-5T = 20 ppm max.
pH Value	AATCC 81	All colorways: 5.0-8.0 (No Tolerance)
CA Prop 65* (if applicable)	Refer to protocol 1300	All samples shall be reviewed against the requirements of California Prop 65
Softlines Regulatory Supplemental Protocol	Refer to Protocol 501	All samples shall be reviewed against the requirements of the Softlines Regulatory Supplemental Protocol to determine if additional testing or labeling is required.
Attachment Strength 0-5T* Applies to ALL trims No fragile trims allowed	16 CFR 1500.51-53 Pt. F (Saf Q)	0-5T: No detachment at 17lbs for 10 seconds
Dimensional Change		
Dimensional Change to Home	AATCC 150 (after 3 washes) /	Tier 1

Laundering or Dry-cleaning (entire sample to be washed)	AATCC 158 (1 cycle) AATCC/ ASTM TS-006 (Length X Width) Tide® Powder Detergent	Wovens	-5% max
		Knits	-6% max
		Waffle Weave	-6% max
		Growth	+2% max
		Dry Cleaning	-2% max
		Tier 2: Use same requirements as Tier 1, evaluate after 3 and 5 washes or 1 dry clean	
Appearance Retention	AATCC/ASTM TS-008 Modified Tide® Powder Detergent	Must meet all applicable Kohl's Appearance Evaluation Requirements	
Performance Test	Test Method	Requirement	
Strength & Durability			
Tensile Strength (textiles only)	ASTM D 5034 (CRT/CRE Tensile Testing Machine)		Tier 1
		≤ 4.0 oz/sq. yd	25 lbs min
		> 4.0 to ≤ 8.0 oz/sq. yd	35 lbs min
		> 8.0 oz/sq. yd	45 lbs min
		Tier 2: Use same requirements as Tier 1, evaluate original state & after 5 washes or 1 dry clean	
Tear Strength (textiles only)	ASTM D 1424 (Elmendorf)		Tier 1
		≤ 4.0 oz/sq. yd	2 lbs min
		> 4.0 to ≤ 8.0 oz/sq. yd	2.5 lbs min
		> 8.0 oz/sq. yd	3 lbs min
		Tier 2: Use same requirements as Tier 1, evaluate original state & after 5 washes or 1 dry clean	
Seam Slippage/ Seam Strength (wovens & vertical seams only)	ASTM D 1683		Tier 1
		All seams and seam slippage	25 lbs min
		Tier 2: Use same requirements as Tier 1, evaluate original state & after 5 washes or 1 dry clean	
Bursting Strength (knits & vinyl only)	Mullen Bursting strength ASTM D 3786		Tier 1
		Fabric	40 lbs /sq. inch
		Seams	30 lbs /sq. inch
		Vinyl (liners)	25 lbs / sq. inch
		Tier 2: Use same requirements as Tier 1, evaluate original state & after 5 washes or 1 dry clean	
Attachment Strength* <i>for grommets/rings/sliders only</i>	ASTM D1683	15 lbs min. for 10 seconds	

Attachment Strength*	16 CFR 1500.51-53 Pt. F (Saf Q)	A) REQUIREMENT: Over 5T - Adult: No detachment at 17 lbs. for 10 seconds DATA ONLY: Report the point at which the trim fails, or if there is no detachment at 50 lbs. **Must test in original state, after 1 wash, and after 5 washes B) REQUIREMENT: No detachment at 5 lbs. DATA ONLY: Report the point at which the trim fails, or if there is no detachment at 50 lbs. C) REQUIREMENT: 5 lbs. for 10 seconds minimum
Performance Test	Test Method	Requirement
Colorfastness		
Colorfastness to Crocking	AATCC 8/116	<u>All fabrics/ dyes (except listed below):</u> <u>Dry - Grade 4 min</u> <u>Wet - Grade 3 min</u> <u>Pigment Dyed/ Printed, Direct Dye, Vat Dye, Sulfur, Lightly Brushed, Piled, Indigo:</u> <u>Dry - Grade 3.5 min</u> <u>Wet - Grade 2 min</u>
Colorfastness to Water	AATCC 107	Shade Change Grade 4 min. Self-staining Grade 4 min. Staining Grade 4 min.
Colorfastness to Chlorine Bleach AND Non-Chlorine Bleach	AATCC/ASTM TS-001	Shade Change Grade 4 min
ADDITIONAL COLORWAY TESTING		
Flammability	ASTM D 1230	Class 1 non-exempt fabrics must be tested in every color
Flammability (vinyl products only)	16 CFR 1611	Shall not exceed 1.2 inches/ second
Formaldehyde - Adults & children over 5T	Kohl's TM-5 JIS L 1041:2011 Sec. 8.1.3 & 8.1.4 Method A or B	Negative, If Spot Test is Positive/ inconclusive, proceed with step 2 Children over 5T & Adults = 75 ppm max.
Formaldehyde - Children's 0-5T	JIS L 1041:2011 Sec. 8.1.3 & 8.1.4 Method A or B	Children 0-5T = 20 ppm max.
pH Value	AATCC 81	white colorways: 5.0-7.0 all other colorways: 6.0 - 8.0
Appearance Retention	AATCC/ASTM TS-008 Modified Tide® Powder Detergent	Must meet all applicable Kohl's Appearance Evaluation Requirements
Colorfastness to Chlorine Bleach AND Non-Chlorine Bleach	AATCC/ASTM TS-001	Shade Change Grade 4 min

Colorfastness to Crocking	AATCC 8/116	<u>All fabrics/ dyes (except listed below):</u> <u>Dry - Grade 4 min</u> <u>Wet - Grade 3 min</u> <u>Pigment Dyed/ Printed, Direct Dye, Vat Dye, Sulfur, Lightly Brushed, Piled, Indigo:</u> <u>Dry - Grade 3.5 min</u> <u>Wet - Grade 2 min</u>								
Colorfastness to Water	AATCC 107	Shade Change Grade 4 min. Self-staining Grade 4 min. Staining Grade 4 min.								
OPTIONAL TESTING - TOXICOLOGY TESTING (required where applicable at additional cost)										
Lead Content in Surface Coating - Scrapeable in each color*	CPSC-CH-E1003-09.1	Children & Adult Products ≤ 90 ppm (0.009% total weight)								
Total Lead in Substrate Material*	CPSC-CH-E1002-08.3/ CPSC-CH-E1001-08.3	Children of ALL ages - Accessible components in each part/ material ≤ 100 ppm (0.010% total weight)								
Phthalates in each plasticized part/ material such as PVC, Vinyl *	CPSC-CH-1001.09.3	Applies to ALL Children's Products ≤ 1000 ppm max (0.1% max total) BBP, DBP, DEHP, DINP, DIDP, DNOP ≤ 1000 ppm max (0.1% max each individual) DCHP, DIBP, DnHP/DHEXP, DPP/DPENP ALL Adult products ≤ 1000 ppm max (0.1% max total) BBP, DBP, DEHP, DINP, DIDP, DNOP ≤ 1000 ppm max (0.1% max each individual) DCHP, DIBP, DnHP/DHEXP, DPP/DPENP								
Performance Test	Test Method	Requirement								
OPTIONAL TESTING - TOXICOLOGY TESTING (required where applicable at additional cost)										
Lead, Cadmium and Phthalate* Applicable to children product including: - Child car seats - Clothing - Cosmetics for children under the age of 12 - Jewelry for children under the age of 12 - Products to help a child with sucking or teething, to facilitate sleep, relaxation, or the feeding of a child	Lead and Cadmium EPA SW 846 Method # 3050B/3051 (Mod.) / CPSCCH-E1003-09.1/ CPSC-CHE1002-08.1 / CPSC-CHE1001-08.1 Phthalate CPSC-CHC1001-09.3	Washington Children's Safe Products Act ≤ 90 ppm (Lead) ≤ 40 ppm (Cadmium) ≤ 0.1% max total (BBP, DBP, DEHP, DINP, DIDP, DNOP) ≤ 0.1% max each individual (DCHP, DIBP, DnHP/DHEXP, DPP/DPENP) Note: Actual test would be performed on below suggested accessible materials.								
		<table border="1"> <thead> <tr> <th>Substances</th> <th>Suggested materials</th> </tr> </thead> <tbody> <tr> <td>Lead</td> <td>Follow CPSC lead</td> </tr> <tr> <td>Cadmium</td> <td>Follow CPSC lead</td> </tr> <tr> <td>Phthalates</td> <td>Coating & Plasticized materials</td> </tr> </tbody> </table>	Substances	Suggested materials	Lead	Follow CPSC lead	Cadmium	Follow CPSC lead	Phthalates	Coating & Plasticized materials
Substances	Suggested materials									
Lead	Follow CPSC lead									
Cadmium	Follow CPSC lead									
Phthalates	Coating & Plasticized materials									

		The Washington standard cannot be enforced for products to which a federal standard applies.
Soluble Heavy Metals * Applies to Children's Toys	ASTM F 963	Children's Toys = Defined as a consumer product designed or intended by the manufacturer for a child, for use by the child when the child plays. Required for children's toys of ALL ages Mercury - 60 ppm Barium - 1000 ppm Antimony - 60 ppm Cadmium - 75 ppm Arsenic - 25 ppm Chromium - 60 ppm Selenium - 500 ppm Lead - 90 ppm
OPTIONAL TESTING - (required where applicable at additional cost)		
Corrosion Resistance (metal only)	ASTM G85/B117	Should Withstand 24 hours in Salt Fog Spray (1%) with no corrosion or rusting
Sharp Points & Sharp Edges *	CPSC 16 CFR 1500.48 - 49	No sharp points or sharp edges - Refer to Product Safety Policy
Antimicrobial - Proceed with applicable tests based on the claim/ statement provided by Vendor		
"Inhibits fungal growth" *	AATCC 30 (test III) Original and after 5 launderings (fabric only) Original state and after 3 launderings (fabric with laminated backing - built in liner) Original state only (Peva/ PVC)	No Growth

(*) asterisk = ALL COLORWAYS MUST BE TESTED

ADDITIONAL NOTE:
*Please refer to Kohl's preferred third party labs for individual pricing and samples.

PROTOCOL VERSION	DESCRIPTION OF CHANGE	DATE REVISED	APPROVED BY
703-1	<ol style="list-style-type: none"> 1. Label review - added 16 CFR 300/ 19 CFR 134 and verify information on TRF matches the label 2. Added tracking label 3. Updated Vinyl flammability requirement 4. Formaldehyde Spot Test - Method changed from Intertek USA #416 to Kohl's TM-5. 5. Tensile strength - added CRT/ CRE Tensile Testing Machine 6. Updated bursting strength requirements 7. Lead surface coating - corrected method from 16 CFR 1303 to CPSC-CH-E1003-09. Also, added requirement for adult products. 8. Lead Substrate - corrected method from EPA 3050B or EPA 3051 to CPSC-CH-E1002-08/CPSC-CH-E1001-08. 9. Phthalates - Corrected method from ASTM D 3421 to CPSC-CH-C1001.09.02. 10. Heavy Metals - Corrected method from ASTM F 963-07 to ASTM F 963-08. 	Amy Her Aug 2011	Amy Her Aug 2011
703-2	<ol style="list-style-type: none"> 1) Added Ultra to the Tide® detergent 2) Added packaging review 3) Added yarn size and product size to the initial testing package 4) For formaldehyde test included "if positive/inconclusive proceed with step 2" also updated requirement for children to 20 ppm 5) Updated testing requirements for dimensional stability, tensile strength, tear strength, seam strength/slippage and bursting strength to include requirements for tier 1, tier 2 & tier 3 6) Updated the c/f to crocking requirement for pigment dyed/printed, etc. To dry grade 3.5 7) Added fragile trim requirement for adults to the attachment strength test for tier 1, tier 2 & tier 3 8) Added pH testing to initial and additional colorway testing 9) Added tensile strength, tear strength, seam strength/slippage and bursting strength to the additional colorway package for silver brands. 10) Updated test method for toxicology tests 	Kristi Sachs Jan 2014	Kristi Sachs Jan 2014
703-3	<ol style="list-style-type: none"> 1) For packaging review added that artwork can be submitted was well as updated the product size to be if applicable 2) Updated Tier 2/3 testing requirements for dimensional change, tensile strength, tear strength, seam strength and bursting strength. 3) Removed strength tests from additional colorway testing 4) For additional colorway testing removed "Only for Tier 1" brands 5) Added adults requirement for phthalates testing 	Kristi Sachs Sept 2014	Kristi Sachs Sept 2014
703-4	<ol style="list-style-type: none"> 1) Removed protocol from pricing 	J. Deppisch Nov 2014	J. Deppisch Nov 2014
703-5	<ol style="list-style-type: none"> 1) Updated shower curtain seam strength requirements 	J. Deppisch Feb 2015	J. Deppisch Feb 2015
703-6	<ol style="list-style-type: none"> 1) Updated product size to include Tech Design's Minimum Construction Standards for tolerances 	J. Deppisch Sept 2015	J. Deppisch Sept 2015
703-7	<ol style="list-style-type: none"> 1) Added Antimicrobial AATCC 30 (test III) to optional testing 	Becky Becker Mar 2016	Becky Becker Mar 2016
703-8	<ol style="list-style-type: none"> 1) Updated AATCC 30 (test III) performance test information to "Inhibits fungal growth" 2) Removed required sample information 	Becky Becker July 2016	Becky Becker July 2016
703-9	<ol style="list-style-type: none"> 1) Added Lead, Cadmium, and Phthalate testing for children 	Charlene Swanson July 2017	Charlene Swanson July 2017
703-10	<ol style="list-style-type: none"> 1) Updated format 2) Updated pH value to include whites and other colorways 	Charlene Swanson September 2017	Charlene Swanson September 2017

703-11	1) Updated Tide detergent to be correct 2) Updated formaldehyde to be up to date 3) Updated formaldehyde children age range 4) Updated the pH value for whites and colorways 5) Updated Phthalates testing	Charlene Swanson January 2018	Charlene Swanson January 2018
703-12	1) Added new test for PEVA curtain mass 2) Added DIDP back on phthalates testing 3) Updated Dimensional Change to Home Laundering to be AATCC 150 instead of AATCC 135 4) Added Prop 65 testing	Charlene Swanson February 2018	Charlene Swanson February 2018
703-13	1) Added Vinyl requirements to bursting strength 2) Updated pH value to be 5.0-8.0 (no tolerance) 3) Updated phthalates for Washington Law to include coated materials 4) Updated Soluble Heavy Metals to ASTM F 963-17	Becky Becker & Charlene Swanson October 2018	Becky Becker & Charlene Swanson October 2018
703-14	1) Provided more clear direction on product to be tested for tensile, tear, and bursting strength	Becky Becker & Charlene Swanson January 2019	Becky Becker & Charlene Swanson January 2019
703-15	1) Update Tracking Label to include Adult Tracking Label information	Jackie Deppisch March 2019	Jackie Deppisch March 2019
703-16	1) Updated Adult Tracking Label to be marked as DATA ONLY	Jackie Deppisch March 2019	Jackie Deppisch March 2019
703-17	1) Updated phthalates testing to call out max total and max individual testing	Charlene Swanson April 2019	Charlene Swanson April 2019
703-18	1) Updated attachment strength requirements and added regulatory requirements for ages 0-5T	Charlene Swanson August 2019	Charlene Swanson August 2019
703-19	1) Updated Attachment strength for both performance and regulatory	Charlene Swanson August 2019	Charlene Swanson August 2019
703-20	1) Updated waffle weave requirements for shrinkage to -6% instead of -10% 2) Added "Option C" to fabric weight testing	Charlene Swanson October 2019	Charlene Swanson October 2019
703-21	1) Added Tech Pack Verification	Charlene Swanson November 2019	Charlene Swanson November 2019
703-22	1) Added Attachment Strength requirement specific for grommets/rings/sliders 2) Updated Attachment Strength requirements for all other attachments 3) Updated Adult Tracking Label to be required instead of data only	Charlene Swanson February 2020	Charlene Swanson February 2020
703-23	1) Updated all applicable test methods to show only tiers 1 and 2	Becky Becker September 2021	Becky Becker September 2021
703-24	1) Added test line for all performance claims	Becky Becker March 2022	Becky Becker March 2022
703-25	Removed PEVA from bursting strength testing	Charlene Swanson September 2022	Charlene Swanson September 2022
703-26	Added testline Softlines Regulatory Supplemental Protocol	Violet Nelson Oct. 31, 2022	Violet Nelson Oct. 31, 2022
703-27	Removed year from ASTM F963 test	Violet Nelson Feb 2024	Violet Nelson Feb 2024
703-28	Removed Dimensional and Mass Measurement for PEVA shower liners only because it is covered by product size	Elizabeth Armstrong Oct 2024	Elizabeth Armstrong Oct 2024