

303-9
Hook & Loop Fasteners

PERFORMANCE	TEST METHOD	REQUIREMENT
INITIAL PACKAGE / FULL PACKAGE		
Physical Properties		
Material Weight	Kohl's TM-8	Report Actual Measurement in g/m
Thickness (Hooks Only)	ASTM D 1777	Report Actual Measurement
Width	Kohl's TM-8	Report Actual Measurement in mm
Construction Quality	Kohl's TM-10	Pre-cut fasteners must not have sharp edges or corners. Corners should be rounded.
Dimensional Change		
Dimensional Change to Home Laundering AND Dry Cleaning	AATCC/ASTM TS-008 Modified	Home Laundering: +/-3% max. in length Dry Cleaning: +/-2% max. in length
Appearance Retention after Laundering AND Dry Cleaning	AATCC/ASTM TS-008 Modified Tide® Powder Detergent	Fasten components before washing/dry cleaning. Check for operability after wash/dry cleaning cycle. No frayed edges or loops. Color Change: Grade 4 min. Staining: Grade 3 min.
Lint and Grab Test	AATCC/ASTM TS-008 Modified	Fasten components before washing/dry cleaning. Check each component for detachment during washing/dry cleaning to see if it gathers lint or grabs onto adjacent fabrics.
Strength & Durability		
Shear strength of hook and loop fasteners	ASTM D5169-98 (R2015)	Hook & Loop Fastener Min. 10lb/in ²
Peel strength (T mthd) of hook and loop touch fasteners	ASTM D5170-98 (R2015)	Hook & Loop Fastener Min. 2lb/in ²
Colorfastness		
Colorfastness to Chlorine Bleach AND Non-Chlorine Bleach	AATCC/ASTM TS-001	Shade Change: Grade 4 min
Colorfastness to Crocking	AATCC 8/116	Dry - Grade 4 min Wet - Grade 3 min
Colorfastness to Water	AATCC 107	Shade Change: Grade 4 min Staining: Grade 4 min
ADDITIONAL COLORWAY TESTING		
Appearance Retention after Laundering and Dry Cleaning	AATCC/ASTM TS-008 Modified Tide® Powder Detergent	Fasten components before washing/dry cleaning. Check for operability after wash/dry cleaning cycle. No frayed edges or loops. Color Change: Grade 4 min. Staining: Grade 3 min.
Colorfastness to Chlorine Bleach AND Non-Chlorine Bleach	AATCC/ASTM TS-001	Shade Change: Grade 4 min
Colorfastness to Crocking	AATCC 8/116	Dry - Grade 4 min Wet - Grade 3 min
Colorfastness to Water	AATCC 107	Shade Change: Grade 4 min Staining: Grade 4 min
Analytical Test- REQUIRED WHERE APPLICABLE AT ADDITIONAL COST		
Formaldehyde	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 4 T & Adults = 75 ppm max.
	Sec. 5.3.1 (2) Method B, JIS Water Extraction Method	Children's 0-4T = 20 ppm max.
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 ≤ 90ppm (0.009% by weight) Refer to Kohl's Product Safety Policy for additional requirement on Composite Testing
Total Lead in Substrate Material*	CPSC-CH-E1002-08.1/ CPSC-CH-E1001-08.1	Children's of ALL ages & Adult products ≤90 ppm (0.009% total weight) Refer to Kohl's Product Safety Policy for additional requirement on Composite Testing

Phthalates in each plasticized part/material such as PVC, Vinyl*	CPSC-CH-C1001.09.3	Children's & Adult Products (Coatings Shall be tested) ≤1000 ppm (0.1%) in each part of DEHP, DBP, BBP, DINP, DIDP, DNOP, & DNHP Refer to Kohl's Product Safety Policy for additional requirement on Composite Testing
Soluble Heavy Metals* Applies to Children's Toys	ASTM F 963-11	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

(*) asterisk= ALL COLORWAYS MUST BE TESTED

Minimum Sample Size Necessary for Testing

Initial Package: 3 yards of darkest colorway plus 1/2 yard of hook and loop sewn onto plain muslin

Additional Colorway: 1 1/2 yards per colorway

Toxicology Testing

Consult with approved lab for the number of samples

Applicant is to select appropriate number of fabric layers based on end use application.

****Please refer to Kohl's preferred third party labs for individual and optional testing pricing**

Turn Around Time = 4 working days

PROTOCOL VERSION	DESCRIPTION OF CHANGE	DATE REVISION / APPROVED BY
303-1	<ol style="list-style-type: none"> Appearance Retention – Changed test method to AATCC/ASTM TS-008 Modified. Added – Dimensional Change and Lint/Grab Test. Lead Content for Scrapable Surfaces – Changed requirement from 600 ppm to 90 ppm. Added – Lead Content Total Substrate, Heavy Metal Content and Phthalate test for children's products 	Nov. 2008/Ro Jain
303-2	<ol style="list-style-type: none"> Lead Content in Surface coating – Updated test method to CPSC-CH-E1003-09 Lead in Substrate – Updated test method to CPSC-CH-E1002/CPSC-CH-E1001-08 and requirement <100 ppm from spring 2011 Phthalates – Updated test method to CPSC-CH-C1001.09.2, added DNHP and applies to all children's products 	Nov. 2009/Ro Jain
303-3	<ol style="list-style-type: none"> KAR Test – Added "Ultra" to Tide Detergent. Material Weight & Weight– Assigned a test method # to Kohl's TM-8. Construction Quality – Assigned a test method # to Kohl's TM-10. Lead in Surface Coating – Updated method to CPSC-CH-E1003-09.1. Added Adult requirement, <90 ppm. Total Lead Substrate – Updated method to CPSC-CH-E1002-08.1/CPSC-CH-E1001-008.1. Phthalates – Updated method to CPSC-CH-C1001-09.3. Added Adult requirement, <1000 ppm. Heavy Metals – Updated method to ASTM F963-08. 	Nov. 2011/Amy Herl
303-4	<ol style="list-style-type: none"> Lead in Substrate test – Starting Spring 2013, test is required on Adult products. Toxicology tests required on both Children & Adult products. 	Sept. 2012 / Vinoth Deenadayalan
303-5	<ol style="list-style-type: none"> Toxicology tests required WHERE APPLICABLE. Heavy Metal Test – Updated method to ASTM F963-11. 	January 2013 / Vinoth Deenadayalan
303-6	Removed pricing for testing/took out Intertek/added approved lab statement	October 6th 2014/Nov. 31 2014/Leah Gross-Hutchison
303-7	Added Formaldehyde Testing	December 4th 2014- Michelle Zydek
303-8	Updated requirements for shear & peel strength	March 2020 Elizabeth Armstrong
303-8	1) Removed "Ultra" from Tide detergent	April 2020/Charlene Swanson
303-9	1) Updated Total Lead In Substrate requirement to be 90 ppm instead of 100 ppm, per labs advisement/MN Law	January 2025/ Jackie Deppisch