

310-8
Heat Transfer/Screen Print/Printed Labels

PERFORMANCE	TEST METHOD	REQUIREMENT
INITIAL PACKAGE / FULL PACKAGE		
Physical Properties		
Durability	Heat Transfer/ Screen Label Wash Durability SOP	Pass
Colorfastness		
Colorfastness to Crocking	AATCC 8/116 Original State	Dry – Grade 4 min Wet – Grade 3 min
Colorfastness to Chlorine AND Non-Chlorine Bleach	AATCC / ASTM TS-001	Shade Change: Grade 4 min
Colorfastness to Water	AATCC 107	Shade Change: Grade 4 min Self Staining: Grade 4 min Staining: Grade 3.5 min
Colorfastness to Saliva	LFGB §64 BVL B82.10.1	Color Change: Grade 4.5 min
		Only applicable to below colored fabrics description and sample observations: 1) White (solid white, or off-white), White-ground prints (5mm or larger white area) and Cream color. 2) Light / Pastel including Cream color cover 30% surface area of the sample Colour change: Grade 4 minimum
Resistance to phenolic yellowing	ISO 105-X18:2007	(Dark, Bright or Neon Color): Color staining: Grade 3.5 minimum
Colorfastness to dye transfer	AATCC 163-13	[Option 1: 30s/150°C/4 kPa] Not applicable for items with a warning "Do not iron". Note: If printed on one side, test specimen should be folded to capture contact with both layers. Color change: 4.0 minimum
Colorfastness to dry heat	AATCC 117-19	Staining: Grade 4.0 minimum
Analytical		
Formaldehyde	Kohl's TM-5 (only for 5T and up) JIS L 1041:2011 – Sec. 8.1.3 & 8.1.4 Method A or B	Negative, If Spot Test is Positive, proceed with step 2 Children over 5T & Adults = 75 ppm max. Children's 0-5T = 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 ≤100 ppm (0.010% 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

<p>Soluble Heavy Metals*</p> <p>Applies to Children's Toys</p>	<p>ASTM F 963-11</p>	<p>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</p> <p>Mercury – 60 ppm Barium – 1000 ppm Antimony – 60 ppm Cadmium – 75 ppm Arsenic – 25 ppm Chromium – 60 ppm Selenium – 500 ppm Lead – 90 ppm</p>
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(*) asterisk= ALL COLORWAYS MUST BE TESTED

Minimum Sample Size Necessary for Testing

Initial Package: 30 pieces of labels per colorway

Toxicology Testing

Consult with approved lab for the number of samples

Turn Around Time = 15 working days

****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.

PROTOCOL VERSION	DESCRIPTION OF CHANGE	DATE REVISION / APPROVED BY
310-1	<ol style="list-style-type: none"> 1. Lead Content in Surface coating – Updated test method to CPSC-CH-E1003-09 2. Lead in Substrate – Updated test method to CPSC-CH-E1002/CPSC-CH-E1001-08 and requirement <100 ppm from spring 2011 3. Phthalates – Updated test method to CPSC-CH-C1001.09.2, added DNHP and applies to all children's products 	Nov. 2009/Ro Jain
310-2	<ol style="list-style-type: none"> 1. Formaldehyde – Changed Intertek Method USA #416 to Kohl's TM-5. 2. Lead in Surface Coating – Updated method to CPSC-CH-E1003-09.1. Added Adult requirement, <90 ppm. 3. Total Lead Substrate – Updated method to CPSC-CH-E1002-08.1/CPSC-CH-E1001-008.1. 4. Added Heavy Metals to protocol. 	Nov. 2011/Amy Her
310-3	<ol style="list-style-type: none"> 1. Lead in Substrate test – Starting Spring 2013, test is required on Adult products. 2. Toxicology tests required on both Children & Adult products. 	Sept. 2012/Vinoth Deenadayalan
310-4	<ol style="list-style-type: none"> 1. Removed “starting spring 2013” statement 2. Added “coatings shall be tested” statement to the Phthalates test 3. Heavy Metals – updated test method to ASTM F963-11 4. Formaldehyde – Updated JIS method to Water Extraction. 	May 2013/Vinoth Deenadayalan
310-5	1. Removed pricing for testing/took out Intertek/added approved lab statement	October 2014/Nov 2014/Leah Gross-Hutchison
310-6	1. Update Formaldehyde to test method B	December 2014/Michelle Zydek
310-7	<ol style="list-style-type: none"> 1. Added Durability test line under Physical Properties 2. Updated formaldehyde to most current method 3. Updated Colorfastness to saliva to match other protocols 	May 2019/Becky Becker & Charlene Swanson
310-8	added tests: Resistance to phenolic yellowing, Colorfastness to dye transfer, Colorfastness to dry heat	May 2022 Elizabeth Armstrong