

## 307-9 Elastics

PERFORMANCE	TEST METHOD	REQUIREMENT
<b>INITIAL PACKAGE / FULL PACKAGE</b>		
<b>Physical Properties</b>		
Fiber Content	AATCC 20/20A	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
Elastic Weight	ASTM D3776	Deviation from contracted weight (g/m): +/- 5% maximum
Elastic Type	Kohl's TM-10	Woven / Knit Description Provided by Supplier
Elastic Width	Kohl's TM-8	Report Actual Measurements in mm and inches
<b>Analytical</b>		
Formaldehyde	Kohl's TM-5 (only for 4 years and up) JIS L 1041:2000 - Method Sec. 5.3.1 (2) Method B, JIS Water Extraction Method	Negative, If Spot Test is Positive, proceed with step 2 Children over 4 years & Adults = 75 ppm max. Children's 0-4T = 20 ppm max.
pH	AATCC 81	6.0 - 8.0
<b>Dimensional Change</b>		
Dimensional Change to Home Laundering AND Dry Cleaning	AATCC 135/158(3 washes) / Dry Clean (1 cycle) Ultra Tide ® Powder Detergent	+3% / - 5% maximum in length
Appearance Retention after Laundering AND Dry Cleaning	AATCC/ASTM TS-008 Modified Ultra Tide ® Powder Detergent	Color Change: Grade 4 min. Staining: Grade 4 min. Plus any additional comments
<b>Strength &amp; Durability</b>		
Tension and Elongation of Elastic Fabrics (General Elastics Only)	ASTM D 4964 Modified ( As received & after 10 washes)  Machine Speed: 300 mm/min. Force: 10 lbf. load	Report Actual Readings  Loop tension (load) at 30%, 50% & 70% elongation Elongation at maximum load Recovery: 90% min.
Stretch and Recovery of Elastic Fabrics (Intimates/Foundation Elastics Only)	Kohl's TM-20  Extension: 40%	Elongation: 85% min. Recovery: 80% Min.
<b>Colorfastness</b>		
Colorfastness to Chlorine Bleach AND Non-Chlorine Bleach (Exclude Encased Applications & Clear Stretch Tape)	AATCC/ASTM TS-001	Shade Change: Grade 4 min
Colorfastness to Perspiration (Exclude Encased Applications & Clear Stretch Tape)	AATCC 15	Shade Change: Grade 4 min Staining: Grade 4 min
Colorfastness to Crocking (Exclude Encased Applications & Clear Stretch Tape)	AATCC 8/116	Dry - Grade 4 min Wet - Grade 3 min
Colorfastness to Light (Exclude Encased Applications & Clear Stretch Tape)	AATCC 16.3-2012 20 AFU	Color Change: Grade 4 min
Colorfastness to Water (Exclude Encased Applications & Clear Stretch Tape)	AATCC 107	Shade Change: Grade 4 min Staining: Grade 4 min
<b>ADDITIONAL COLORWAY TESTING</b>		
Appearance Retention after Laundering AND Dry Cleaning	AATCC/ASTM TS-008 Modified Ultra Tide ® Powder Detergent	Color Change: Grade 4 min. Staining: Grade 4 min. Plus any additional comments
Colorfastness to Chlorine Bleach AND Non-Chlorine Bleach (Exclude Encased Applications & Clear Stretch Tape)	AATCC/ASTM TS-001	Shade Change: Grade 4 min
Colorfastness to Perspiration (Exclude Encased Applications & Clear Stretch Tape)	AATCC 15	Shade Change: Grade 4 min Staining: Grade 4 min
Colorfastness to Crocking (Exclude Encased Applications & Clear Stretch Tape)	AATCC 8/116	Dry - Grade 4 min Wet - Grade 3 min

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Colorfastness to Light (Exclude Encased Applications & Clear Stretch Tape)	AATCC 16.3-2012 20 AFU	Color Change: Grade 4 min
Colorfastness to Water (Exclude Encased Applications & Clear Stretch Tape)	AATCC 107	Shade Change: Grade 4 min Staining: Grade 4 min
pH	AATCC 81	6.0 - 8.0
<b>REQUIRED WHERE APPLICABLE AT ADDITIONAL COST</b>		
Colorfastness to Sea Water* (Swimwear Only AND Exclude Encased Applications & Clear Stretch Tape)	AATCC 106	Shade Change: Grade 4 min Staining: Grade 4 min
Colorfastness to Chlorinated Pool Water* (Swimwear Only AND Exclude Encased Applications & Clear Stretch Tape)	AATCC 162	Shade Change: Grade 4 min
Resistance to Saliva* (Children Only - under 36 months)	64 LFGB B82.92-3 Part 1	Staining: Grade 4.5 min Shade Change: Grade 4.0 min
Formaldehyde	Kohl's TM-5 (only for 4 years and up)  JIS L 1041:2000 - Method Sec. 5.3.1 (2) Method B, JIS Water Extraction Method	Negative, If Spot Test is Positive, proceed with step 2
		Children over 4 T & Adults = 75 ppm max.  Children's 0-4T = 20 ppm max.
<b>TOXICOLOGY TESTING – REQUIRED WHERE APPLICABLE AT ADDITIONAL COST</b>		
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)
Phthalates in each plasticized part/material such as PVC, Vinyl*	CPSC-CH-C1001.09.3	Children's & Adult Products (Coatings Shall be tested) < 0.1% (1000 ppm) in each part of DEHP, BBP, DBP, DINP, DIDP, DnHP, DnOP, DIBP, DnPP, DCHP
Soluble Heavy Metals* Applies to Children's Toys	ASTM F 963-17	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

\*\*\*ALL COMPONENTS MUST BE TESTED FOR TOXICOLOGY\*\*\*

Basic Submission - An individual elastic product. The basic submission represents one style number in the supplier's line. Submit one width in the darkest color.

### Minimum Sample Size Necessary for Testing

Initial Package:

Elastic Tape = 12 meters (13 yds) of darkest colorway

Elastic Thread = 30 meters (33 yds) of darkest colorway

Additional Colorway:

Elastic Tape = 10 meters (11 yds) per colorway

Elastic Thread = 25 meters (27 yds) 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**

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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
307-1	<ol style="list-style-type: none"> <li>1. Appearance Retention – Changed test method to AATCC/ASTM TS-008 Modified.</li> <li>2. Added – Colorfastness to Saliva test</li> <li>3. Changed Formaldehyde Test Requirements</li> <li>4. Removed Colorfastness to Laundering/Dry Cleaning test</li> <li>5. Lead Content for Scrapable Surfaces – Changed requirement from 600 ppm to 90 ppm.</li> <li>6. Added – Lead Content Total Substrate, Heavy Metal Content and Phthalate test for children's products</li> <li>7. Tension &amp; Elongation Test – Modified test method.</li> <li>8. Added – Stretch &amp; Recovery Test for Intimates/Foundation Elastics.</li> </ol>	Nov. 2008/Ro Jain
307-2	<ol style="list-style-type: none"> <li>1. Lead Content in Surface coating – Updated test method to CPSC-CH-E1003-09</li> <li>2. Lead in Substrate – Updated test method to CPSC-CH-E1002/CPSC-CH-E1001-08 and requirement &lt;100 ppm from spring 2011</li> </ol>	Nov. 2009/Ro Jain
307-3	<ol style="list-style-type: none"> <li>1. KAR &amp; Dimensional Change Test – Added “Ultra” to Tide Detergent.</li> <li>2. Elastic Width - Assigned test method # to Kohl's TM-8.</li> <li>3. Elastic Type – Assigned test method # to Kohl's TM-10.</li> <li>4. Lead in Surface Coating – Updated method to CPSC-CH-E1003-09.1. Added Adult requirement, &lt;90 ppm.</li> <li>5. Total Lead Substrate – Updated method to CPSC-CH-E1002-08.1/CPSC-CH-E1001-008.1.</li> <li>6. Added Phthalates &amp; Heavy Metals to protocol.</li> <li>7. Dimensional Change – Changed requirement from +/-5% to +3% / -5% maximum.</li> <li>8. Tension &amp; Elongation of Elastic Fabrics – Changed Recovery requirement from 85% to 90% min.</li> <li>9. Stretch &amp; recovery – Changed test method from Intertek USA # 445 Modified to Kohl's TM-20.</li> <li>10. Resistance to Saliva – Changed method from Section 35 LMBG 82.10 to 64 LFGB B82.10-1. Added Shade Change requirement.</li> </ol>	Nov. 2011/Amy Her
307-4	<ol style="list-style-type: none"> <li>2. Toxicology tests required on both Children &amp; Adult products.</li> </ol>	Sept. 2012 / Vinoth Deenadayalan
307-5	<ol style="list-style-type: none"> <li>1. Added Formaldehyde to required Analytical section of testing report.</li> <li>2. Added pH to required Analytical section of testing report.</li> <li>3. Heavy Metals – Updated test method to ASTM F963-11</li> </ol>	March 2013 / Devon Engel
307-6	<ol style="list-style-type: none"> <li>1. Removed “starting spring 2013” statement</li> <li>2. Added “coatings shall be tested” statement to the Phthalates test</li> <li>3. Heavy Metals – updated test method to ASTM F963-11</li> <li>4. Formaldehyde – Modified JIS method to Water Extraction. Updated Children 0-4T req. from 0.05 Absorbency to 20 ppm.</li> <li>5. C/f to Light – Updated test method to AATCC 16.3-2012.</li> </ol>	May 2013 / Vinoth Deenadayalan
307-7	Removed pricing for testing/took out Intertek/added approved lab statement	October 6th 2014/Nov. 31 2014/Leah Gross-Hutchison
307-8	Added Formaldehyde	December 4th 2014- Michelle Zydek
307-9	<ol style="list-style-type: none"> <li>Added phthalate requirements</li> <li>Added Soluble Heavy Metal version update</li> <li>Updated Formaldehyde version update</li> </ol>	October 2018-Deppisch