

**PROTOCOL # 420-1**

**Swing**

Performance Test	Test Method	Samples	Requirement	Rating (Section or exec. Summary which failed items can be referenced)
<b>Initial Package</b>				
<b>Label Verification</b>				
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	All Samples	Should be legibly marked with the following information: -Distributor's name, trademark or other means of identification of the manufacturer or packer & 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 -Country of origin (if imported)	
Instructional Literature /Assembly Instruction (Needs to be provided – Lab HOLD if not provided)	Visual Check	All Samples	Information and instructions shall provide safe use, or proper assembly or both, and care instruction. Shall be legible and easy to read.	<input type="checkbox"/> Provided <input type="checkbox"/> Verified <input type="checkbox"/> Not Provided
Maximum Weight Capacity (When Available)	Visual Check	All Samples	Shall be displayed on the product in a conspicuously manner. Record data.	
Fiber Content & Care Label (Upholstery Only)	FTC	All Samples	The labeling must comply and valid with all claims.	
Verify Label Claims	Visual Check	All Samples	The labeling must comply and valid with all claims.	
Law Label	Visual Check	All Samples	All samples shall be reviewed against the requirements of Law Label (Bedding Tag).	
Import Permit (For Natural Materials Only) If Applicable	US Department of Agriculture Animal and Plant Health Inspection Service (APHIS), Plant Protection and Quarantine (PPQ)	All Samples	Product shall not have prohibited materials present per US Department of Agriculture, Animal and Plant Health Inspection Service (APHIS), Plant Protection and Quarantine (PPQ)  Documentation and/ or proper permit(s) for specific product shall be supplied along with Testing Request form and samples.  Permit information may be found at: <a href="https://www.aphis.usda.gov/wps/portal/aphis/home/">https://www.aphis.usda.gov/wps/portal/aphis/home/</a>  It is the vendor's responsibility for the compliance to relevant requirements.	
Adult Tracking Label: **If space limitations exist, contact Kohl's Quality Assurance & Product Integrity teams to discuss minimum required information MR.QA.PI@kohls.com	Kohl's Requirement	All Samples	<b>Should be rated as pass/fail</b> Can be included on packaging when necessary: Kohl's Assigned Factory Number Manufacture Date (Month/Year) UPC #	
<b>Analytical</b>				
*Lead In Scrapable Surface Coating *CA Prop 65 (if applicable)	CPSC-CH- Refer to Protocol 1300	1 Sample All Samples	≤ 90 ppm (0.009% by weight) (CPSA – 16 CFR 1303) All samples shall be reviewed against the requirements of California Proposition 65 to determine if additional testing or labeling is required.	
*PFAS Supplemental Protocol	Refer to Protocol 1600	All Samples	All samples shall be reviewed against the requirements of PFAS Supplement Protocol to determine if additional testing or labeling is required	
<b>Physical Characteristics</b>				
Overall Dimension (LXWXH Or Diameter)	Std. Measure (in/cm)		Max. +5% / -0% of claimed dimension. Record actual data if there is no claim.	Claim: Actual:
Overall Weight	Std. Measure (lb/kg)		Max. +5% / -0% of claimed weight. Record actual data if there is no claim.	Claim: Actual:
<b>Construction Qualities</b>				
Kohl's Workmanship Review	Visual Check / Actual Use	All Samples	-All components shall be provided as claimed and shall not be deformed or fractured. -All hardware shall be provided -All welds shall be smoothly finished and free from pits and splatter -All components shall not contain any burrs or sharp edges (test by touch or sight) -Product shall not contain any loose components or unsecured fastening where rigidity is required -Filling material shall be free of objectionable matter and contaminants	

<b>Performance</b>				
<b>*UPHOLSTERY (If Applicable)</b>				
<b>Physical Characteristics</b>				
Fiber Content (Shell Fabric & Filling Materials)	AATCC 20/20A	1 Sample	Single fiber only: no tolerance 2 or more fibers blend: ± 3% max. Functional fiber i.e. Spandex: ± 2% max.	
Foam Padding (Filling Material)	ASTM E 1252	1 Sample	Material identification by FTIR method.	
Fabric Weight (Oz. / Sq. Yd.)	ASTM D3776	1 Sample	As approved / as claimed / products specifications/as measured (+5% / -0%)	
Thread Count (Ends X Picks)	ASTM D3775	1 Sample	As approved / as claimed / products specifications/as measured (+5% / -0%)	
Defects	Visual Check	1 Sample	No major defects / two minor defects (max.)	
Evenness Of Color	Visual Check	1 Sample	Shall provide uniform color	
Weight of Filling	Std. Measure	1 Sample	± 5% (oz, lb)	
Material Foam Density	Std. Measure	1 Sample	± 5% (lb/ in3)	
<b>Performance</b>				
<b>Fabric Strength:</b>				
Length	ASTM D 5034	1 Sample	Min. 50 lbs. / In.	
Width	ASTM D 5034	1 Sample	Min. 50 lbs. / In.	
Seam Strength	ASTM D1683	1 Sample	Min. 30 lbs. / In.	
Seam Slippage	ASTM D1683	1 Sample	Min. 25lbs @ ¼ in slippage	
Surface Water Repelling	AATCC 22	1 Sample	Min. 90 ratings	
Water Resistance (Outdoor Use and If Claimed Only)	AATCC 35	1 Sample	Max. 1 gm water penetration at 2 ft for 2 min.	
<b>Dimensional Change</b>				
Dimensional Change to Home Laundering, Dry-Cleaning or Spot Clean (If Applicable)	AATCC 150 (3 Washes)/ AATCC 158 (1 Cycle)Tide® Powder Detergent	1 Sample	Wovens: ± 4% max. Knits: ± 8% max. Flannel: ± 6% max. (Length x Width) Dry Cleaning: ± 4% max.	
Appearance Retention (If Applicable)	AATCC/ASTM TS-008 (Modified) Tide® Powder Detergent	1 Sample	Must meet all applicable Kohl's Appearance Evaluation Requirements.	
<b>Zipper</b>				
Operability (Open/Closed)	ASTM D2062	1 Sample	Remains functional after 15 cycles	
Cross Widthwise Strength	ASTM D2061	1 Sample	Min. 50 lbs.	
Scoop Pull	ASTM D2061	1 Sample	Min. 10 lbs.	
Slider Torque	ASTM D2061	1 Sample	Min. 4 in-lbf.	
Top stop	ASTM D2061	1 Sample	Min. 20 lbs.	
Bottom Stop	ASTM D2061	1 Sample	Min. 20 lbs.	
Slider Pull	ASTM D2061	1 Sample	Min. 15 lbs.	

PERFORMANCE TESTINGS				
Actual use - functionality - not covered by other tests	Actual Use	All Samples	Shall function as intended as received	
Seating - back pull durability	Dynamic Load	1 Sample	No failure at 100 Lbs. for 1 min. applied to 90° from back at 16 In. above the seat	
Seating - seat static load	EN 1728: 2012 Section 6.4	1 Sample	No structural failure—with distributed weight as following for 1 min.  Simultaneously on both positions for an item with two seats.  Simultaneously on two adjacent seats in most adverse combination for an item with three or more seats. If the most adverse position cannot be determined the test shall be carried out at a maximum of two locations.  Test load: with claimed weight or 400lbs if not claimed per seat During the test, load the seat(s) that are not being tested with 163lbs  Modification= Loading parameter changed	
Impact durability	ANSI/BIFMA X5.4-12 Section 14 (Mod)	1 Sample	A functional load applied once to each seating position shall cause no loss of serviceability.  The test bag (225 lb or claimed weight) shall be raised 152 mm (6 in.) above the uncompressed seat and released one (1) time. Remove the bag and repeat setup and functional procedures for each remaining seating position.  Modification= Loading parameter changed	
Seating – front seating capacity	Force Application	1 Sample	No failure under 300 Lbs. (or claimed weight) loading at edge (6 In.)	
Seating - arm strength vertical	ANSI/BIFMA X5.4-12 Section 10 (Mod.)	1 Sample	No loss of serviceability under the following loads.  For units with armrest width of greater than 75 mm (3 in.) a force of 890 N (200 lbf.) shall be applied for one (1) minute.  For units with an armrest width of less than or equal to 75 mm (3 in.), a force of 750 N (169 lbf.) shall be applied for one (1) minute.  Modification= Loading parameter changed	
Seating - arm strength horizontal	ANSI/BIFMA X5.4 Section 9 (Mod.)	1 Sample	No loss of serviceability under the following loads. For units with a distance between the arms less than 889 mm (35 in.), a force of 445 N (100 lbf.) shall be applied for one (1) minute in the inward direction. For units with distance between the arms greater than or equal to 889 mm (35 in.), a force of 592 N (133 lbf.) shall be applied for one (1) minute in the inward direction.  Modification= Loading parameter changed	
Leg Strength (Front / Side)	ANSI/BIFMA X5.1-17 Sec. 17 (Mod.)	1 Sample	Front Load Test:  The load of 75 lbs is applied once to each front leg individually for one (1) minute shall cause no loss of serviceability.  Side Load Test: The load of 75 lbs is applied once to a front and rear leg individually for one (1) minute shall cause no loss of serviceability.  Modification= Loading parameter changed	
Assessment Of Potential Finger Entrapment And Squeeze And Shear Point	EN 581-1-2006 Section 5	1 Sample	Any externally accessible openings must not be between 7 to 12mm in diameter (Finger entrapment).  Distance between two externally accessible parts relative to each other shall not be between 7 to 18mm when under the body weight (Shear and squeeze point).	
Swing Cycling Test	Actual Use	1 Sample	Apply a load of 225lb on each seat (or claimed weight), shall withstand 1000 cycles without failure when pull the swing at an angle of 15° from vertical position. It should swing 15° forward and 15° backward as on cycle	

Stability Test (swing chair)	Kohl's Requirement	1 Sample	Place unit on flat test plane that is inclined 18° to horizontal. Load each seating position with [225lbs] or [according to maximum claimed weight(evenly divided per seating position)], whichever is greater.  Evaluate unit on the inclined test plane in all orientations that present maximum tendency for an unstable condition to exist.  Any portion of the unit intended to contact the group must remain in contact with the inclined test plane.	
Protective Caps On Legs	Visual Check / Actual Use	1 Sample	Shall be non - marring	
Flammability of Solid	16 CFR 1500.44	1 Sample	Burn rate<0.1"/ sec	
Resistance To Hot Water	Fed. Spec. AA-H-001895B	1 Sample	Pour 25 ml of boiling water and allow it to cool down. Dried surface shall have no graying or spotting.	
Cross-cut Adhesion (Plating & Surface Coating)	ASTM D 3359-09e2 (Mod.)	1 Sample	Cut 2 in. cross - hatch pattern on surface of plated and/or painted area. Plating and/or painted surface must remain affixed. Trace peeling or removal along incision or at their intersection is accepted. Modification= Scope expanded	
Effects Of Extreme Temperature/Humidity (For Outdoor Use Only)	Kohl's TM 30	1 Sample	24 Hours @ 0° F (-18°C) and 24 Hours @ 95% RH/120° F (49°C) - no failure  Size limitation to be determined.	
Resistance To Corrosion (Metal components Only)	ASTM B117-11 ASTM G85 (Mod.)	1 Sample	Shall withstand 24 hours in 1% salt spray (fog) with no major visual change or corrosion. Modification = % of salt spray	
Colorfastness To Light (Outdoor Use Only)	AATCC 16.3-14	1 Sample	Grade 3.5. minimum Record actual data at 40/60/100 hrs.	
Colorfastness to water	AATCC 107-13	1 Sample	Grade 4.5 minimum	
Colorfastness to crocking	AATCC 8-13	1 Sample	Dry: Grade 4.0 Minimum Wet: Grade 3.0 Minimum	
Wood Moisture Content Back/Base/Leg	Std. Measure	1 Sample	Should be between 6-10% for solid wood only	
#Claim Verification (If Claimed)	Visual Check / Actual Use	1 Sample	All designs and features must conform to actual claim	Claim:
Tech Pack Verification (Needs to be provided – Lab HOLD if not provided)	Visual Check / Std. Measurement	1 Sample	Verify all claims mentioned in Tech Pack File	<input type="checkbox"/> Provided <input type="checkbox"/> Verified
<b>ANALYTICAL</b>				
Lead In Scrapable Surface Coating	CPSC-CH- E1003-09	1 Sample	≤ 90 ppm (0.009% by weight)  (CPSA – 16 CFR 1303)	
CA Prop 65	Refer to Protocol 1300	1 Sample	All samples shall be reviewed against the requirements of California Proposition 65 to determine if additional testing or labeling is required.	
PFAS Supplemental Protocol	Refer to Protocol 1600	All Samples	All samples shall be reviewed against the requirements of PFAS Supplement Protocol to determine if additional testing or labeling is required.	
<b>PRICING AND ADDITIONAL NOTE:</b>				
*Please refer to Kohl's preferred third party labs for individual pricing and sample size				

Protocol Version	Description of Change	Revised by / Date	Approved By / Date
420-A	Initial Release	Elizabeth Armstrong Sept 2, 2015	Elizabeth Armstrong Sept 2, 2015
420-B	Updated AI & Tech pack testing results/rating	Elizabeth Armstrong March 14, 2016	Jeetendra Sheltakar March 14, 2016
420-C	Update test methods for CF to light, CF to water, Resistance to corrosion, cross cut adhesion, resistance to hot water, finger entrapment, leg strength, seat arm strength (horizontal, vertical), impact durability, seating static load	Elizabeth Armstrong May 13, 2016	Elizabeth Armstrong May 13, 2016
420-D	Updated BIFMA standard for leg strength (front/side) to comply with new industry standard	Elizabeth Armstrong May 10, 2017	Elizabeth Armstrong May 10, 2017
420-E	Added upholstery testing requirements	Elizabeth Armstrong Aug 30, 2018	Elizabeth Armstrong Aug 30, 2018
420-F	Added Import Permit & Adult Tracking Label requirements	Jackie Deppisch April 24, 2019	Jackie Deppisch April 24, 2019
420-G	Removed "data only" from adult tracking label, removed "not provided" from tech pack verification	Elizabeth Armstrong June 11, 2020	Elizabeth Armstrong June 11, 2020
420-H	Added PFAS Supplemental Protocol testing requirement	Charlene Swanson / March 2022	Charlene Swanson / March 2022
420-I	Updated verbiage for Colorfastness to light and water to state "grade" instead of "class"	Charlene Swanson / May 2024	Charlene Swanson / May 2024