

PROTOCOL # 904-N

LUGGAGE - TIER 1 / TIER 2

Performance Test	Test Method	Samples	Requirement	Rating (Section or exec. Summary which failed items can be referenced)
Initial Package				
Label Verification				
Labeling / Packaging Review	FPLA 16 CFR 500 & 19 CFR 134	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)	
Leather & Imitation Leather	16 CFR 24 Visual Check	All Samples	Must conform to FTC Guides Only the top grain leather can be labeled "Genuine" or "Top Grain" A disclosure of the percentage of leather fibers & non-fiber substances in the composite or bonded leather	
Instructions (If Applicable)	Visual Check	All Samples	Should provide use, care and maintenance information.	
Composite Wood Products Labeling – Formaldehyde Emission (If Applicable)	Calif. Code of Regulations, Title 17, S. 93210.7 (d) Visual Check	All Samples	Product and retail packaging must be labeled to certify compliance to formaldehyde emission standard of CARB ATCM.	
Composite Wood Products Labeling – Formaldehyde Emission (If Applicable)	40 CFR Part 770	All Samples	Product and retail packaging must be labeled to certify compliance to formaldehyde emission standard of US EPA. Effective Date: 01 Dec 2017	
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: https://www.aphis.usda.gov/wps/portal/aphis/home/ It is the vendor's responsibility for the compliance to relevant requirements.	
Adult Tracking Label: **If space limitations exist, contact Kohl's Quality Assurance team to discuss minimum required information (quality.assurance@kohls.com)	Kohl's Requirement	All Samples	Can be included on packaging when necessary: Kohl's Assigned Factory Number Manufacture Date (Month/Year) UPC #	
PHYSICAL CHARACTERISTICS				
Overall Dimension (L x W X H)	Std. Measure	1 Sample	As claimed/measured (+/-3% max.)	
COLORFASTNESS				
*Light Fading (Shell, Handle/Pull Strap Only)	AATCC 16 3-14 Option 3 10AFU	1 Sample	Class 3.5 (textile), Class 3.0 (leather/suede)	
*Dry Crocking	AATCC 8/116-13	1 Sample	Class 4.0 (textile) Class 3.0 (leather/suede/inner lining)	
*Wet Crocking	AATCC 8/116-13	1 Sample	Class 3.0 (textile) Class 2.0 (leather/suede/inner lining)	
*Perspiration (Handle/Shoulder Strap & Pull Strap Only)	AATCC 15-13	1 Sample	Class 3.0 (shade change / staining / self-staining)	
Analytical				
*Lead In Scrapable Surface Coating	CPSC-CH-E1003-09	1 Sample	≤90 ppm (0.0090% by weight)	

*CA Prop 65	Refer to Protocol 1300	All Samples	All samples shall be reviewed against the requirements of California Proposition 65 to determine if additional testing or labeling is required.	
Construction Qualities				
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 - Product shall not tip over during casual handling	
Fabric Weight (Textiles)	ASTM D3776-09a R2013	1 Sample	As claimed/measured (+/-5% max.)	
Thickness In Mills (Leather)	ASTM D1813-13	1 Sample	As claimed/measured (+/-10% max.)	
Thread Count	ASTM D3775-12	1 Sample	As claimed/measured (+/-5% max.)	
Tensile Strength (Excluding Mesh Fabric Material)	ASTM D5034-09a R2013	1 Sample	Shell: Textile: Min. 50 lbs. Vinyl: Min. 40 lbs. Lining: Min. 20 lbs.	
Tensile Strength (Leather)	ASTM D2209	1 Sample	Tier 1/Tier 2: 40lbs	
Tear Strength (Upper Surface of Main Shell/Back Shell/Bottom Shell/Major Outer Materials Only)	ASTM D1424-09 R2013e1	1 Sample	Textile and vinyl materials: (Including handle, shoulder strap & pull strap) Tier 1/Tier 2: 6lbs	
Bursting Strength (Mesh Pocket/Bag/Lining Only)	ASTM D3786	1 Sample	Min. 25 lbs.	
Seam Strength – Side & Bottom	ASTM D1683-11a modified	1 Sample	Tier 1/Tier 2: Min. 30lbs./in. (Carry-on) Min. 40 lbs./in. (Others) Modification = expanded scope to other products	
Zipper Seam Strength	ASTM D1683	1 Sample	Min. 30 lbs /in.	
Shoulder Strap/Pull Strap Strength (45° & 90°)	ASTM D1683-11a modified	1 Sample	Tier 1/Tier 2: Min. 30 lbs./in. (Carry-on) Min. 50 lbs./in. (Medium size) Min. 60 lbs (Large size and oversize) Modification = expanded scope to other products	
Attachment Strength Of Locks, Buckles, Hooks, D-Rings, Toggles And Other Related Hardware	ASTM D1683-11a modified	1 Sample	Min. 30 lbs. Modification = expanded scope to other products	
Snapping / Unsnapping Force	ASTM/AATCC TS-013 / ASTM D4846 R2021	1 Sample	Min. 2 lbs/ Max. 8 lbs.	
ZIPPER:				
Operability (Open/closed)	ASTM D2062-03 R2014	1 Sample	Min. 5 lbs. Remains functional after Tier 1/Tier 2: 500 cycles	
Cross Widthwise Strength	ASTM D2061-07 R2013	1 Sample	Tier 1/Tier 2: Min. 50 lbs.	
Scoop Pull	ASTM D2061-07 R2013	1 Sample	Tier 1/Tier 2: Min. 10 lbs.	
Top/Bottom Stop	ASTM D2061-07 R2013	1 Sample	Tier 1/Tier 2: Min. 25 lbs.	
Slider Torque	ASTM D2061-07 R2013	1 Sample	Tier 1/Tier 2: Min. 4 in-lbf.	
Slider Pull	ASTM D2061-07 R2013	1 Sample	Tier 1/Tier 2: Min. 15 lbs.	

Reinforced Stress Points	ASTM D1683-11a modified	1 Sample	Tier 1/Tier 2: Min. 25 lbs. Min. 15 lbs (Inner pockets without zipper) Modification = expanded scope to other products	
Velcro:				
*Shear Strength	ASTM D5169-98 (R2015)	1 Sample for Each Direction	- Lengthwise (Original) : 10 lbs./in ² - Lengthwise (After 250 cycles) > 50% of the original (Mod.) - Widthwise (Original): 5.5 lbs./in ² - Widthwise (After 250 cycles) > 50% of the original (Mod.)	
* Peel Strength	ASTM D5170-98 (R2015)	1 Sample	- Original: 0.4 lb./in. - After 250 cycles: 0.3 lbs/in. (Mod.)	
Performance				
Abrasion Resistance (Textile & Leather)	ASTM D3886	1 Sample	No removal of upper surface of shell/outer materials at Tier 1/Tier 2: 500 cycles	
Abrasion Resistance (Vinyl/Polymeric)	ASTM D3886	1 Sample	No removal of upper surface of shell/outer materials at Tier 1/Tier 2: 300 cycles	
Drop Test	ASTM F963-11 (Mod.)	1 Sample	A loaded sample is tipped over by pushing it slowly past the center of balance from a height of 3 feet onto a flat concrete impact medium for no. of times. No loss of serviceability, structural damage or breakage of the main body shell, handle, frame support or caster assembly. Tier 1/Tier 2: 4 times	
Dynamic Loading	Kohl's TM 42	1 Sample	No material and/or structural failure after no. of cycles of lifting a loaded sample by handle to a height of 14 inches from a rest position. Tier 1/Tier 2: 500 cycles	
Hardware Operability (Locks, Buckles, Hooks, D-Rings, Toggles And Other Related Hardware)	Actual Use	1 Sample	No failure @no. of repeated open/close cycles. Tier 1/Tier 2: 100 cycles	
*Cross Cut Adhesion Test (If Applicable)	ASTM D3359-2009e2 TM A	1 Sample	Cut 2 in. cross - hatch pattern on a surface of plated item, plating must remain affixed. Trace peeling or removal along incision or at their intersection is accepted.	
Resistance To Humidity	Kohl's TM 31	1 Sample	Shall withstand 24 hours @ 95% R.H/100°F. No noticeable change in color and rusting.	
Water Repellency (Main And Bottom Fabrics)	AATCC 22-14	1 Sample	Min. 90 ISO rating.	
*Water Resistance (Main And Bottom Fabrics – Only If Claimed)	AATCC 35-13	1 Sample	Max. 1.0g water penetration at 2 ft for 30 seconds.	
*Rain Test (Main And Bottom Fabrics – Only If Claimed)	AATCC 35-13	1 Sample	Max. 1.0g water penetration at 2 ft for 2 minutes.	
*Resistance To Corrosion (Metal Components)	ASTM B117-11 (Mod.)	1 Sample	Shall withstand 24 hours in 1% salt spray (fog). No noticeable change in color and rusting. Modification = 1% of salt spray	
*Oil Resistance (Only If Claimed)	AATCC 118-13	1 Sample	Min. #5 oil repellency grade.	
*Component Attachment Strength (Children's Products Only)	16 CFR 1500 & 1501	1 Sample	15 lbs. for 10 seconds. No detachment of snaps, buttons, buckles and all other functional and non-functional components that could result in potential sharp point, sharp edge or small parts hazards.	
ADDITIONAL PERFORMANCE TEST FOR ROLLER LUGGAGUE ONLY				

Tip-Over Test	Kohl's TM 43	1 Sample	No loss of serviceability or structural damage to the handle, frame support or caster assembly after tipping over the loaded sample with the pull handle fully extended, against 1-inch obstruction. The tipping force shall be not less than 4 lbs.	
Pull Handle – Static Loading	Kohl's TM 44	1 Sample	No loss of serviceability, loosening or breakage of connecting parts or permanent deformations after applying a below static load to the handle for - 20 lbs. with size of less than 12" x 16" - 35 lbs. with size of 12" x 16" or larger Tier 1/Tier 2: 1 hr.	
Pull Handle – Durability	Kohl's TM 45	1 Sample	No loss of serviceability, loosening or breakage of connecting parts or permanent deformations after no. of cycles of extension and retraction. Tier 1/Tier 2: 500 cycles	
Caster - Shock Resistance	Kohl's TM 46	1 Sample	No loss of serviceability, loosening or breakage of connecting parts, slackness of the caster assembly after running the loaded luggage set on a revolving drum with 1 cm bump for Tier 1/Tier 2: 1 hr.	
Caster - Durability	Kohl's TM 47	1 Sample	No loss of serviceability, loosening or breakage of connecting parts, slackness of the caster assembly after running the loaded luggage set on a treadmill at a speed of 5 Km/hr for Tier 1/Tier 2: 1 hr.	
#Claim Verification (If Claimed)	Visual Check / Actual Use	1 Sample	All designs and features must conform to actual claim.	Claim: Actual:
<p>Total test load applied is dependent upon the size of the sample. Test load should be evenly distributed to the extent that is physically feasible.</p> <p>- 40 lbs. (Carry-on, up to 22" L) - 50 lbs. (Medium size, up to 26"L) - 60 lbs. (Large size and oversize, over 26"L)</p> <p>NOTE: <i>In addition to this protocol, any product designed for, intended for or appealing primarily to children, requires additional testing per Kohl's Testing Protocol #601.</i> KOHLS, AGENT'S & VENDORS USE ONLY</p> <p>*Please refer to Kohl's preferred third party labs for individual pricing and sample size</p>				

Protocol Version	Description of Change	Revised by / Date	Approved By / Date
1209 – 0	Initial Release	Simon Leung Feb 19, 2009	Ro Jain Feb 28, 2009
904-A	Changed protocol number from 1209-0 to 904-A. Changed lead in surface coating to 90ppm from 600ppm. Changed loading limits and tear strength, price adjustment. Changed test method for scrapable surface to CPSC	Elizabeth Armstrong April 1, 2010	Ro Jain April 1, 2010
904-B	Added Carb label requirements and phthalates testing	Elizabeth Armstrong September 15, 2011	Ro Jain September 15, 2011
904-C	Added composite testing requirements to phthalates testing. Changed rain test pricing to \$35	Elizabeth Armstrong February 1, 2012	Ro Jain February 1, 2012
904-D	Separate the test line of Prop 65 to supplementary protocol	Joyce Ho March 5, 2013	Ro Jain April 15, 2013
904-E	Differentiate the performance rating to Tier 1/Tier 2/Tier 3	Joyce Ho Oct 4, 2013	Ro Jain Feb. 10, 2014
904-F	Price Adjustment on performance and chemical tests in additional price section	Candy Chan Jul 30, 2014	Jeetendra Shelatkar Aug 4, 2014
904-G	Renamed in-house methods	Candy Chan Sep. 4, 2014	Elizabeth Armstrong Oct. 27, 2014
904-H	Update test methods, fabric weight, thickness, thread count, tensile strength, tear strength, bursting strength, seam strength, zipper seam strength, should strap strength, attachment strength, snapping/unsnapping, zipper performance, reinforced stress points, shear strength, peel strength, drop test, cross cut adhesion, water repellency, water resistance, rain test, resistance to corrosion, CF to light, crocking and perspiration and noted modification	Elizabeth Armstrong May 5, 2016	Elizabeth Armstrong May 5, 2016
904-I	Updated bursting strength test to ASTM D3786	Elizabeth Armstrong Nov 2, 2016	Elizabeth Armstrong Nov 2, 2016
904-J	Added Labeling – US EPA Formaldehyde Emission	Cindy Ng May 4, 2017	Elizabeth Armstrong May 8, 2017
904-K	Added import permit and adult tracking label req	Elizabeth Armstrong April 22, 2019	Elizabeth Armstrong April 22, 2019
904-L	Removed “data only” from adult tracking label	Elizabeth Armstrong June 15, 2020	Elizabeth Armstrong June 15, 2020
904-M	Updated Perspiration colorfastness Update Snapping/Unsnapping test method	Kevin Makocy November 2024	Kevin Makocy November 2024
904-N	Removed Tier 3 requirements	Kevin Makocy November 2024	Kevin Makocy November 2024