

Protocol 704-I

Marker/Pen

Test Property	Test Method	Samples	Test Principle/Requirements	Rating (Section or Executive Summary which failed items can be referenced)
LABELING				
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 of 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)	
Art Materials	16 CFR 1500.14 (b) (8)	All Samples	Shall have statement of conformance - "Conforms to ASTM D-4236"	
Instruction for Use (If Applicable)	Visual Check	All Samples	Should be legible, accurate and complete.	
Verify Label Claims (If Applicable)	Visual Check	All Samples	The labeling must comply and valid with all claims.	
Import Permits (for natural materials only) (if applicable)	US Department of Agriculture Animal & 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.	Pass/Fail
Adult Tracking Label **If space limitations exist, contact Kohl's Quality Assurance & Product Integrity team to discuss minimum required information (MR.QA. PI@kohls.com)	Kohl's Requirement	All Samples	MUST BE MARKED AS A PASS/FAIL Can be included on packaging when necessary: Kohl's Assigned Factory Number Manufacture Date (Month/Year) UPC #	
PHYSICAL CHARACTERISTICS				
Overall Dimensions (Length x Diameter/Cross Sectional Area In Inch)	Std. Measure	3 Samples	Max. +5% / -0% of the claimed dimension. Record actual data if there is no claim.	Claim: Actual:
CONSTRUCTION QUALITIES				

Kohl's Workmanship Review	Visual Check / Actual Use	All Samples	<p>All components shall be provided as claimed and shall not be deformed or fractured.</p> <p>All hardware shall be provided</p> <p>All welds shall be smoothly finished and free from pits and splatter</p> <p>All components shall not contain any burrs or sharp edges (test by touch or sight)</p> <p>Shall not contain any loose pen cap, components or unsecured enclosure where structural rigidity and product sealing is required</p> <p>No ink shall drip off or leak out of the pen body or cap</p>	
PERFORMANCE				
Writing Performance	JIS S6037 Clause 6.3	1 Sample	<p>The minimum writing distance shall be 985 ft (300 m), wherein no noticeable blurs or blotting shall occur when tested at ambient temperature and 65% RH.</p> <p>Oil base with tip larger than 0.01" (2.5 mm) Writing speed: 8 inch/s (20 cm/s) Writing force: 3.6 oz (1N)</p> <p>Oil base with tip less than 0.01" (2.5 mm) Writing speed: 6 inch/s (15 cm/s) Writing force: 1.8 oz (0.5N)</p> <p>Water base: tip ∅ not specified Writing speed: 2-3/4 inch/s (7 cm/s) Writing force: 1.8 oz (0.5N)</p>	
Strength of Pen Point	Std. Measure & Visual Check	1 sample	A steady and increasing load is applied to the pen point by pushing it vertically against a platform scale until the scale marks 21 oz (600 g) the pen point shall not be pushed back into the pen body, when tested at ambient temperature and 65% RH. Note any visible damage or deformation of the pen point tip.	
Drying Performance	Actual Use & Visual Check	1 Sample	<p>Water-base: Draw a line by hand on a sheet of writing paper in a continuous five-loop spiral at ambient temperature. After 1min, place a sheet of writing paper on it, press down the paper with a weight of base diameter 2" (50 mm) and mass 500 g, leave it as is for 1 min, then remove the paper and examine whether the drawn line is transferred to the paper applied.</p> <p>Oil-base: Follow the same procedure but draw on a glass plate.</p>	
*Resistance To Light (Excluding Marker Pen With Washable Ink Claim)	Kohl's TM-52	1 Sample	Class 2.0 (min).	

*Resistance To Water (Applicable To Marker Pen Claimed To Be Non-Washable Only)	Actual Use & Visual Check	1 Sample	Draw a line by hand on a sheet of writing paper in a continuous five-loop spiral at ambient temperature. After 1 min, immersing the paper in distilled water at the same temperature for 1 hour. Air dry. The drawn line shall remain visual after drying.	
*Pen Cap Size/Ventilated Cap Air Flow (Applicable To Children's Products With Detachable Cap/Enclosure)	BS 7272 2008 Clause 3.2 & 3.3	1 Sample	With its main axis perpendicular to an 5/8" (16 mm) diameter ring gauge at least 3/16" (5mm) of the length of the pen cap shall not enter under its own weight Otherwise, the pen cap shall permit a minimum air flow of 488 cubic inch/min (8 l/min), with a maximum pressure drop of 0.2 PSI (1.33 kPa).	
Impact Resistance	16 CFR 1500.53	1 Sample	4 drops onto an impact medium from 3 feet height. No loss of serviceability. No accessible sharp edges or sharp points.	
Effects Of Extreme Temperature/Humidity	Kohl's TM-30	1 Sample	24 Hours @ 0° F (-18°C) and 24 Hours @ 95% RH/120° F (49°C). No failure	
#Claim Verification (if claimed)	Visual Check / Actual Use	1 Sample	All designs and features must conform to actual claim	Claim:
ANALYTICAL				
*Lead in Scrapable Surface Coating	ASTM E1613/E1645	1 Sample	≤90 ppm (0.0090% by weight) (CPSA – 16 CFR 1303)	
*LHAMA Toxicological Review	16 CFR 1500.14 (b) (8)	1 Sample	Art material product formulation (s) and associated label shall have a chronic health hazard review by a certified toxicologist. In lieu of testing, a 3rd party test report can be submitted to lab for document review.	
*Toxicity & Irritancy by Toxicological Risk Assessment (TRA) Applicable to below components : All toy cosmetics, liquids, pastes, putties, gels and powders regardless of claim Other materials bearing a "NON-TOXIC" claim on samples and/or its	ASTM F963 / 16 CFR 1500.3	1 Sample	Toxicity Risk Assessment shall be conducted to substantiate the compliance of the regulation. In lieu of testing, test report can be submitted if dated within two years.	
Total Lead	Metal: CPSC-CH-E1001-08.3 Non Metal: CPSC-CH-E1002-08.3 Surface Coating: CPSC-CH-E1003-09.1	1 Sample	90ppm Minnesota 325E.3892 (HF 2310) Products preempted by federal & state law (e.g., CPSC, FDA, etc) are exempt from testing. ¹ Product exemptions for CPSC (16	
Total Cadmium	Substrate & Surface Coating: EPA or ASTM method from AFIRM or CPSC methods	1 Sample	40ppm (children) Washington State CHCC	
Total Cadmium	Substrate & Surface Coating: EPA or ASTM method from AFIRM or CPSC methods	1 Sample	75ppm Minnesota 325E.3892 (HF 2310) Product Exemptions by federal & state law (e.g., CPSC, FDA, etc) are exempt from testing. ¹	

*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.	
ADDITIONAL NOTE:				
*Please refer to Kohl's preferred third party labs for individual pricing and samples.				
Protocol Version	Description of Change	Revised by/Date	Approved by/Date	
703-0	Initial Release	Simon Leung Oct 15, 2009	Ro Jain July 21, 2010	
704-B	Added "CPSA – 16 CFR 1303" to Lead in Scrapable Surface Coating Test Principle/Requirements. Reformatted Phthalates Test Section Together with Price Adjustment	Simon Leung September 15, 2011	Ro Jain September 15, 2011	
704-C	Separate the test line of Prop 65 to supplementary protocol	John Wong Mar 19, 2013	Ro Jain April 15, 2013	
704-D	Updated lead content pricing	Candy Chan Jul 30, 2014	Jeetendra Shelatkar Aug. 4, 2014	
704-E	Updated test method for Writing Performance, Resistance to Light and Effects of Extreme Temperature/Humidity	Quincy Chan Dec 2, 2014	Elizabeth Armstrong Dec 11, 2014	
704-F	Added adult tracking label	Elizabeth Armstrong June 23, 2020	Elizabeth Armstrong June 23, 2020	
704-G	Add TRA Assessment	Charlene Swanson January 2022	Charlene Swanson January 2022	
704-H	Added MN Law test line for lead and cadmium	Elizabeth Armstrong Nov 2023		
704-I	Updated MN Law to add exemptions	Elizabeth Armstrong March 2024		