

PROTOCOL # 806-P

PLASTIC FREEZER MUG ICE BALL FREEZER BOWLS

Performance Test	Test Method	Samples	Test Principle/Requirements	Rating (Section or exec. Summary which failed items can be referenced)
LABELING				
Labeling / Packaging Review	FPLA 16 CFR 500 & 19 CFR 134	All Samples	Shall 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 (if applicable) -Country of origin (if imported)	
Verify Label Claims	Visual Check/ Performance Claims	All Samples	The labeling must be valid and comply with all claims.	Claim: Actual:
BPA Free Label	Visual Check	All Samples	Must be conspicuously labeled as "BPA Free" Containers designed to be filled with food or liquid for children under the age of 3	
Import Permit (For Natural Materials Only)	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.	Pass/Fail
Adult Tracking Label **If space limitations exist, contact Kohl's Quality Assurance & Product Integrity teams 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 #	
Chemical Disclosure / Labeling in Cookware	CA AB-1200 article 2 (mod) / CO HB-22 1345 sec. 25-15-604 (2)a-f (mod)/ Visual	All Samples	Cookware chemical disclosure labeling provided for CA AB-1200 and/or CO HB-22-1345 compliance pertaining to handles or any surface that comes into contact with food, foodstuff, or beverages shall meet the following: 1) List of chemicals is introduced by the phrase "The product contains:" 2) List of chemicals is followed by the phrase "For more information about chemicals in this product, visit: / Para obtener más información sobre las sustancias químicas de este producto, visite: "www.kohls.com/chemicaldisclosure" and QR code which leads to that web address 3) Lab must verify that all disclosed chemicals are present on the Kohl's TRF 4) Labeling must be incorporated into retail packaging or printed on a sticker / hangtag which is affixed to retail packaging or the product. Fold out "butterfly" labels are acceptable. Printing on the inside of retail packaging or an information insert are not acceptable formats See example below: <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>This Product Contains: (Este producto contiene:) Chemical 1, Chemical 2, Chemical 3, Chemical 4, etc. For more information about chemicals in this product, visit: (Para obtener más información sobre las sustancias químicas de este producto, visite:) https://cs.kohls.com/app/answers/detail/a_id/4243?cid=ISMQR246&utm_medium=ISM</p>  </div>	
PHYSICAL CHARACTERISTICS				
Capacity (fl. oz. / mL)	FPLA/ UPLR	3 Samples	As claimed/ measured (+3% / -0%)	Claim: Actual:

Dimensions	FPLA/ UPLR	3 Samples	As claimed/ measured (+3% / -0%)	Claim: Actual:
CONSTRUCTION QUALITIES				
Kohl's Workmanship Review	Visual Check / Actual Use	1 Sample	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	
PERFORMANCE				
Effects of Handwashing	Kohl's TM 32	3 Samples	No color change and no adverse effects - Hand wash with detergent for below defined cycles. Tier 1 5 cycles Tier 2 10 cycles	
*Dishwasher Safe	Kohl's TM-57	3 Samples	Dishwasher/detergent for below defined cycles - no color change or adverse effects. Report if label is not durability marked. Tier 1 5 cycles Tier 2 10 cycles	
Insulating Effectiveness	With Reference to EN 12546-1	3 Samples	The sample shall be conditioned @ 5° F (-15°C) for 24 hours before transferred to standard laboratory condition and filled with water @ 39° F (4°C). The temperature of the water shall not be more than 39° F (4°C) after the below defined duration: Tier 1 30 minutes Tier 2 1 hour	
Freezer Safe	Actual Use	3 Samples	Fill with water. Shall withstand a freezer temperature of 0°F (-18°C) without leakage, cracks, deformation or adverse effects.	
Lid fitting (if applicable)	Actual Use	All Samples	No failure with below defined cycles of/off: Tier 1 50 Cycles Tier 2 100 Cycles	
Impact Resistance (Performed with the item at room temperature)	ASTM F963 (Mod)	1 Sample	Below defined drops onto an impact medium from 3 feet height. Shall exhibit no accessible sharp edge or non-functional sharp points. No visual defects. After each drop, fill the sample with water at room temperature to evaluate hairline cracks or water leakage. Carry out the test at room temperature Tier 1 3 drops Tier 2 4 drops Modification = No. of Drop	
Impact Resistance (Performed with the item frozen)	ASTM F963 (Mod)	1 Sample	Below defined drops onto an impact medium from 3 feet height. Shall exhibit no accessible sharp edge or non-functional sharp points. No visual defects. After each drop, fill the sample with water at room temperature to evaluate hairline cracks or water leakage. Carry out the test when the item is frozen. Tier 1 3 drops Tier 2 4 drops	
Handle Strength-Impact	Kohl's TM 35	3 Samples	For freezer mug apply the impact force to the handle. For ice ball apply the impact force to the center position of the major axis. Carry out the test at both room temperature and 0° F (-18°C) Withstand the below impact force: Tier 1 Min 3 oz Tier 2 Min 4 oz	
Handle Strength-Static	Kohl's TM 34	3 Samples	Should withstand below defined volume capacity weight Tier 1 2 x volume capacity Tier 2 3x volume capacity	

Stain Resistance	Actual Use	3 Samples	No objectionable stain by beverage after below defined timing placement: red wine, coke, orange juice and grape juice.	
			No objectionable stain after below timing placement: Ketchup, mustard & cooking oil (Foodware) Red wine, grape juice & coffee (Drinkware)	
			Tier 1	30 minutes
			Tier 2	2 Hours
Puncture Resistance (if applicable)	EN 12546-3	1 Sample	At ambient temperature, apply a force of 10N through a needle of tip radius 0.4mm for 10s once on each side of the product. The product shall not leak after tested.	
Glow in the Dark performance (if claimed)	Kohl's TM 56	3 Samples	Expose the samples to light source (a.indoor/b. outdoor)for 30 min, 90 min and 180 min, respectively. Assess the samples to see whether it glows in the dark or not after 30 min, 90 min and 180 min by the naked eye. Record the observation.	

ANALYTICAL

*Liquid Toxicity: (Applicable only to Liquid Styles)

Propylene Glycol Content	GC-MS	1 Sample	Minimum 12.0%. Note: Propylene Glycol shall be used as an antifreeze. Desired but not required	
Presence Of Ethylene Glycol	GC-MS	1 Sample	16 CFR 1500.231 - Must not be present	
Presence Of Diethylene Glycol (Children's Products Only)	GC-MS	1 Sample	16 CFR 1500.231 - Must not be present	
Methanol (Children's Products Only)	GC-MS	1 Sample	16 CFR 1500.231 - Must not be present	
Mercury (Children's Products Only)	AAS	1 Sample	16 CFR 1500.231 - Must not be present	
Methylene Chloride (Children's Products Only)	GC-MS	1 Sample	16 CFR 1500.231 - Must not be present	
Petroleum Distillates (Children's Products Only)	GC-MS	1 Sample	16 CFR 1500.231 - Must not be present	
Toluene (Children's Products Only)	GC-MS	1 Sample	16 CFR 1500.231 - Must not be present	
Xylene (Children's Products Only)	GC-MS	1 Sample	16 CFR 1500.231 - Must not be present	
Formaldehyde Content (%)	ISO 14184-1	1 Sample	16 CFR 1500.13 (>1% is considered as a strong sensitizer/warning required)	
Benzene Content (%)	GC/MS	1 Sample	16 CFR 1500.14 (≥ 5%: Products shall be labeled with the signal word "danger," the statement of hazard "Vapor harmful," the word "poison," and the skull and crossbones symbol. ≥ 10%: Products shall bear the additional statement of hazard "Harmful or fatal if swallowed" and the additional statement "Call physician immediately.")	
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. Product exemptions for CPSC (16 CFR 1500.91 (d) and (e), 16 CFR 1500.88 and 16 CFR 1252)	
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.	
Food Contact Supplemental Protocol (State Regulations Only)	Refer to Protocol 1800	All Samples	All samples shall be reviewed against the requirements of Food Contact Supplemental Protocol (State Regulation Only) to determine if additional testing or labeling is required	

*Microbial Test: (Applicable only to Liquid Styles)				
*Standard Bacteria Count (HPC)	APHA 9215B	500 ml	500 HPC Maximum	
*Coliform Count	APHA 9222B FDA 8th, Rev. A, 1998, Chapter 18	500 ml	Must not be present < 1 cfu/mL	
*Mould & Yeast				
*Toxicology (Plastics and polymeric coating)	21 CFR 175/177	1 Sample	Must comply with applicable requirements of FDA	
*Lead In Scrapable Surface Coating	CPSC-CHE1003-09	1 Sample	≤ 90ppm (0.009% by weight) (CPSA - 16 CFR 1303)	
*Bisphenol A (BPA) Content Scope: 1) Reusable food or beverage containers (ie, food contact), including lid, cup, etc). 2) Sports bottles	Solvent extraction and analysis by LC/MS Various US State Laws (CT, WA, NY, DE, IL, MA, MD, ME, MN, NV, VT, WI, the District of Columbia, Chicago City)	All Samples & All Colorways	Shall not contain any detectable level of Bisphenol A Remark: Actual testing shall be done on all accessible plasticized material including coatings and plastic. Exempt Materials: Glass, Metal, Wood, Textiles. Plastic layer or coating on exempt material shall need to be tested. Vendor shall be responsible for compliance of other materials.	
PFAS Supplemental Protocol (1600)	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	

PRICING AND ADDITIONAL NOTE:

***Please refer to Kohl's preferred third party labs for individual pricing and sample size.**

PROTOCOL VERSION	DESCRIPTION OF CHANGE	Revised By	Approved By
806 - 0	Initial Release	CY Chan Feb 10, 2004	Roger Mayerson Mar 08, 2004
806 - 1	Revise Microb Revise Microbial test – deleted USP 61 changed to Bacteria, Coliform, Mould & Yeast. ial test – deleted USP 61 changed to Bacteria, Coliform, Mould & Yeast.	Simon Leung May 06, 2004	Bill Stark May 10, 2004
806 - 2	Revise No of working days	Simon Leung June 21, 2004	Roger Mayerson July 01, 2004
806 - 3	Modified Microwave test requirement	Simon Leung Oct 04, 2004	Roger Mayerson Oct 11, 2004
806 - 4	Added Capacity, Effect of Handwashing & Handle Strength Tests. Removed Microwave Oven Safe Test. Price Adjustment	Simon Leung Oct. 31, 2008	Ro Jain Oct. 31, 2008
806-A	Changed protocol number from 806-4 to 806-A. Changed lead in scrapable surface coating to 90ppm from 600ppm, price adjustment	Elizabeth Armstrong April 1, 2010	Ro Jain April 1, 2010
806-B	Added BPA testing	Elizabeth Armstrong November 11, 2010	Ro Jain November 11, 2010
806-C	Added Drop Test. Remove Extreme Temperature Test Created Freezer Safe Test. Removed "Handle Strength - Impact" Test. Created "Impact Strength" Test. Updated the Test Method for Lead in Surface Coating. Increased the Sample Size for Basic Package Testing. Price Adjustment.	Elaine Smaczniak Sep 18, 2012	Ro Jain Oct 4, 2012
806-D	Differentiate the performance rating to Tier 1/Tier 2/Tier 3 Updated the package price & working days Adjusted Formaldehyde & Bacteria Pricing	Jeetendra Shelatkar Oct 4, 2013	Ro Jain Dec 16, 2013
806-E	Updated lead content pricing	Candy Chan Jul 30, 2014	Jeetendra Shelatka
806-F	Renamed all in-house methods	Birkoff Chen Sep. 4, 2014	Elaine Smaczniak October 30, 2014
806-G	Benzene in 16 CFR 1500.14, Puncture Resistance and Glow in the dark performance is added	Zoe Yeung Apr 02, 2015	Elizabeth Armstrong April 2, 2015
806-H	Updated BPA testing to test all accessible components if BPA Free is claimed	Elizabeth Armstrong July 30, 2015	Elizabeth Armstrong July 30, 2015

806-I	Updated the test method of Dishwasher safe to Kohl's TM 57, Toxicology (Plastics and polymeric coating) and BPA Content	Gigi Au May 20, 2016	Elizabeth Armstrong May 23, 2016
806-J	Added adult tracking label	Elizabeth Armstrong June 24, 2020	Elizabeth Armstrong June 24, 2020
806-K	Updated Tiering and added PFAS	Jackie Deppisch / March 2022	Jackie Deppisch/ March 2022
806-L	Updated BPA Free Label test line and BPA Content test line	Charlene Swanson/ October 2023	Charlene Swanson/October 2023
806-M	Updated to add in MN law and Washington State Law requirements under Analytical section	Jackie Deppisch November 2023	Jackie Deppisch/Nov 2023
806-N	1) Added Chemical Disclosure / Labeling in Cookware test line	Violet Nelson / Dec 2023	Violet Nelson / Dec 2023
806-O	Updated MN Law with exemptions	Elizabeth Armstrong March 2024	
806-P	1) Added new Food Contact Supplemental protocol (1800) requirements	Jackie Deppisch September 2024	