

REPORT

Lab Number: (5507)207-0562
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Sample Number
(5507)207-0562



**BUREAU
VERITAS**

DOLLAR GENERAL TEST REPORT

DOLLAR GENERAL
100 MISSION RIDGE
GOODLETTSVILLE, TN 37072-2170

LAB NO.: (5507) 207-0562
DATE IN: JULY 26, 2007 (AM)
DATE OUT: AUG 10, 2007 (PM)
MOD. DATE: AUG 06, 2007 (AM)
WORKING DAYS: 5
PAGE: 1 OF 4
AWB#: /

ATTN: NANCY PARKS
CC: DELANEY

OVERALL RATING	
GOOD	X
MARGINAL/COND. APPROVED	_____
UNSATISFACTORY	_____
INCOMPLETE	_____

TESTING FOR
Food Containers - Plastic
DG-6013-US
Child Appealing Feature (Additional)
DG-8003-US

DEVELOPMENT PRODUCTION CUSTOMER COMPLAINT OTHER
INSPECTION PULL SAMPLE VENDOR SUBMITTED SAMPLE

Sample Description:	DIY TRAVEL MUG		
Vendor/Agent:	FORMATION INC	Factory:	██████████ ██████████ ██████████
Color:	RED & BLACK	Buyer/Dept:	205
Style:	F82016	SKU Number:	25721267
P.O.#:	IN345V	Country of Origin:	CHINA
Re-test:	Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/>	Charge Vendor:	Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/>
Previous Report No.:	/		
Addendum Report:	Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/>		
Reason For Addendum:	/		

TEST PROPERTY	GOOD	C.A.	UNSAT	COMMENTS
Labeling	X			
Physical Characteristics				N/A
Construction Qualities	X			
Performance	X			
Colorfastness				N/A
Flammability	X			
Analytical	X			SEE EXECUTIVE SUMMARY 1-3
Transit Testing				N/A

C/N KNL (5507) 207-0562 *J*



EXECUTIVE SUMMARY:

1. The submitted sample (Travel mug – Black plastic (Polypropylene) lid and body) complies with the requirement of the U.S. Food and Drug Administration requirements (U.S. FDA 21 CFR part 177.1520 -Olefin polymer). The results are outlined as below: (Good)

U.S. FDA 21 CFR part 177.1520 -Olefin polymer

Client claimed material: Polypropylene homopolymer

Test Item	1	Requirements
Density (g/cm ³)	0.910	0.88-0.913
n-hexane extractives (%)	1.42	6.4
Xylene extractives (%)	0.398	9.8
Melting point (°C)	162	160-180
Conclusion	PASS	

Tested Item 1: Travel mug – Black plastic (Polypropylene) lid and body

Note: < = less than

2. The submitted sample (Travel mug – Black plastic (Silicon) gasket ring) complies with the U.S. Food and Drug Administration requirements (U.S. FDA 21 CFR part 177.1210 – Closures with sealing gaskets for food containers - Chloroform soluble extractives residue) Food Simulating Solvents Extractions tests. Test results are stated as below: (Good)

U.S. FDA 21 CFR part 177.1210 – Closures with sealing gaskets for food containers

Chloroform soluble extractives residue

Food simulant used	Test Condition	Capacity of container (ml)	Result (ppm)	Requirements (See remark)	Conclusion
			2		
Distilled water	C) Hot filled or pasteurized above 150°F (Fill boiling, cool to 100°F)	320	<10	< 50 ppm	PASS

Tested Item 2: Travel mug – Black plastic (Silicon) gasket ring

Note: ppm = parts per million
NA = not applicable
< = less than



Remarks: 1) In order to simulate contact with all food types and all the time-temperature exaggerations of the use conditions, the extractability conditions were chosen with the labelling information on maximum temperature of use in contacting with food, or the worst foreseeable conditions of food contacting. A combination of more than one extractability conditions may be used.

2) Provided that the materials of the closures are the same as claimed by client, only one tested sample would be carried out whether the ring-size and / or the capacities of the containers are different. The result of the referred sample was obtained based on an area ratio which was calculated from the surface area of the referred sample over that of the tested sample. The results of the first table refer to the tested sample.

3) Table for the maximum extractives tolerances of different type closure-sealing gasket composition

<u>Type of closure-sealing gasket composition</u>	<i>Maximum Extractives Tolerances (in ppm)</i>		
	<i>Chloroform fraction of water extractives</i>	<i>Chloroform fraction of heptane extractives</i>	<i>Chloroform fraction of alcohol extractives</i>
<i>1. Plasticized polymers, including unvulcanized or vulcanized or otherwise cured natural and synthetic rubber formed in place as overall discs or annular rings from a hot melt, solution, plastisol, organisol, mechanical dispersion, or latex</i>	50	500	50
<i>2. Performed overall discs or annular rings of plasticized polymers, including unvulcanized natural or synthetic rubber</i>	50	250	50
<i>3. Performed overall discs or annular rings of vulcanized plasticized polymers, including natural or synthetic rubber</i>	50	50	50
<i>4. Performed overall discs or annular rings of polymeric or resinous-coated paper, paperboard, plastic, or metal foil substrates</i>	50	250	50
<i>5. Closures with sealing gaskets or sealing compositions as described in 1, 2, 3 and 4, and including paper, paperboard, and glassine used for dry foods only</i>	Not applicable	Not applicable	Not applicable



3. The submitted sample (Travel mug – Black soft plastic (Rubber) on lid) complies with the requirement of the U.S. Food and Drug Administration requirements (U.S. FDA 21 CFR part 177.2600). The results are outlined as below: (Good)

U.S. FDA 21 CFR part 177.2600 - Rubber article intended for repeated use

I. Rubber articles intended for repeated use, in contact with aqueous food

Test Item	3	Requirements
Total extractives, mg/in ² (in distilled water)	0.626	20 mg/in ² in during the first 7 hours of extraction
Total extractives, mg/in ² (in distilled water)	0.225	1 mg/in ² during the succeeding 2 hours of extraction
Conclusion	PASS	

Tested Item 3: Travel mug – Black soft plastic (Rubber) on lid

Note: mg/in² = milligrams per square inch of food-contact surface
NA = not applicable
< = less than

NOTE: If there are questions or concerns regarding above report, please contact the appropriate lab persons.

Technical questions & concerns:

Johnson Chan / Karin Lee
johnson.chan@hk.bureauveritas.com
karin.lee@hk.bureauveritas.com

General enquiry:

Wing Lau
wing.lau@hk.bureauveritas.com

BUREAU VERITAS HONG KONG LIMITED



KENNETH HO
DEPARTMENT MANAGER - HARDLINES



BUREAU OF ENVIRONMENTAL HYGIENE

**DOLLAR GENERAL TEST PROTOCOL FOR
DG-6013-US
Food Containers - Plastic**

BV Lab Number: (5507) 207-0562
 Technician Name: STEVE
 Test Date: AUG 9, 2007
 Reviewed By/Date: CHUN, AUG 9, 2007

Evaluation	Citation/Method	No. Samples	Criteria	Results	Rating
SUPPLEMENTAL PROTOCOLS					
*Child Appealing Feature	DG-8003-US	All	Compliance to standard (Attach Child Appealing Feature Protocol)	See Protocol DG-8003-US	/
Note: Additional cost, sample size & TAT may be required if testing to 1 or more supplemental protocol is necessary. Please refer to the above referenced supplemental protocol(s) for additional information.					
LABELING					
**Uniform Packaging and Labeling Regulations	NIST Uniform Laws and Regulations Handbook 130	1	Manufacturer, packer, or distributor's name & address (City, state & zip) Product identification	M M	GOOD GOOD
**Country of Origin Marking	19 CFR 134.11	1	Net quantity of contents shall be expressed in terms of weight or mass, measure, numerical count, or combination so as to give accurate information to facilitate consumer comparison (U.S. and metric units). Shall indicate country of origin legibly, permanently, and in comparable size and close proximity to any mention of country other than country in which the article was manufactured or produced. Must be visible at point of purchase.	M	GOOD
Use Labeling	TM-HL-0002	1	Use / care instructions that are clear and understandable shall be provided in language appropriate to destination countries.	M	GOOD
Verify Label Claims	Visual	All	Must comply with all claims	M	GOOD
ANALYTICAL					
*Lead In Surface Coating	ASTM E1613-04 / E1645-01 (Mod.)	1	Shall not exceed 600 ppm (0.06% by weight) total lead.	NA (NO SURFACE COATING)	/
*Toxicology (Plastic)	FDA 21 CFR 176 / 177	1	Must comply with regulations of US FDA Food Simulating Solvent and Extraction NOTE: Toxicology testing is not needed if: 1: If vendor provides a certificate, verifying the item is in compliance with the requirement.	M (SEE REPORT)	GOOD



DEPARTMENT OF HEALTH AND HUMAN SERVICES
MICHIGAN

BY Lab Number: (5507) 207-0562
Technician Name: STEVE

DG-6013-US
Food Containers - Plastic

Evaluation	Citation/Method	No. Samples	Criteria	Results	Rating
*CONEG	CONEG	1	This environmentally motivated legislation regulates the amount of lead, cadmium, hexavalent chromium and mercury allowed in packaging materials. It is the vendor's responsibility for the conformity of this requirement.	NT	/
CONSTRUCTION & WORKMANSHIP					
Workmanship	Visual	All	No major defects - Burrs, sharp edges, or flaws One minor defect allowed	M	GOOD
PERFORMANCE					
*Flammability (For children items only)	16 CFR 1500.44	1	< 0.1 inch per second (Horizontal burning)	See Protocol DG-8003-US	/
*Mechanical Hazard (For children items only)	ASTM F963	1	No Safety Hazards	See Protocol DG-8003-US	/

Results Key:

M	Meets	NM	Does Not Meet
NA	Not Applicable	NT	Not Tested
C	Claimed	R	Recorded

Rating Key:

Good	Good
C/M	Cond./Marginal
Unsat	Unsatisfactory

Key:

M Meets NM Does Not Meet
 NA Not Applicable NT Not Tested
 * Additional Charge For This Test ** Mandatory Requirement

No. Of Samples Required For Complete Testing:	3
No. Of Working Days For Complete Testing:	7

Creation Date: January 14, 2005
 Editorial Revision Date: May 25, 2007
 Pricing Review Date:
 Technical Review Date:



FEDERAL BUREAU OF INVESTIGATION

**DOLLAR GENERAL TEST PROTOCOL FOR
DC-8003-US
Child Appealing Feature (Additional)**

Sample Number: (5507) 207-0562
Date: AUG 9, 2007

Evaluation	Chation/Method	Criteria	Rating
LABELING REQUIREMENTS			
Electrically Operated Children's Products	16 CFR 1505.3	Shall conform to the labeling requirements of 16 CFR 1505.3	N/A-
SAFETY REQUIREMENTS			
*16 CFR 1303 Lead content	16 CFR 1303	Shall not contain lead or lead components in which the lead content is in excess of 0.06% (600ppm) of the weight of the <i>total</i> content. In case of insufficient coating for testing found on number of samples specified in the protocol, vendor needs to provide wet paints, dipped parts or components/parts for testing.	N/A- (NO SURFACE COATING)
*Client's Total lead content in metal jewelry (Also applicable to Key Chain and Bookmark)	CPSC Interim Enforcement Policy for Children's Metal Jewelry Containing Lead (Mod.) Client's specification	All accessible metal components of jewelry shall not contain Lead or Lead compounds in which the total Lead content is in excess of 0.06% (600 mg/kg (ppm)) by weight of the total nonvolatile content. Modification = Acid Extraction Test shall not be conducted if the total lead content is greater than 0.06% (600 mg/kg (ppm)).	N/A-
16 CFR 1500.3 Toxicity & Irritancy by TRA - doc	16 CFR 1500	Products intended for use by children, including toys and parts of toys, must not be toxic or cause skin or eye irritation., Toxicity Risk Assessment shall be conducted to substantiate the compliance of the regulation for the following components: <ul style="list-style-type: none"> All cosmetics, liquids, pastes, putties, gels and powders regardless of claim Other materials bearing a "NON-TOXIC" claim on samples and/or its packaging In lieu of testing, test report can be submitted if dated within five years.	N/A-
*16 CFR 1500.3(c)(6)(iii) Combustible Liquids	16 CFR 1500.3(c)(6)(iii) / 16 CFR 1500.43(a)	Method of test for flashpoint of potentially volatile combustible materials (150 °F / 65.6 °C). All liquid filled items intended or likely to be used by children shall comply with this requirement.	N/A-
16 CFR 1500.231 Hazardous liquid (GC scan) - doc	16 CFR 1500.231	To identify the presence of potentially hazardous ingredients, all liquid filled items intended or likely to be used by children shall comply with this requirement. In lieu of testing, test report can be submitted if dated within one year.	N/A-
*16 CFR 1505 Electrically Operated Toys	16 CFR 1505	Children's products operating from nominal 120-V branch circuits shall conform to the requirements of 16 CFR 1505	N/A-
Small Objects	16 CFR 1500.50 / 16 CFR 1501	Items intended for children under 36 months (3 years) of age shall not include removable, liberated components, or fragments of toys after use and abuse that are small enough (without being compressed) to fit entirely within the small parts cylinder	N/A-
Accessible Edges	16 CFR 1500.49 & 50	Items intended for children under 8 years of age shall not have accessible, potentially hazardous sharp edges before or after use and abuse testing	M/GOOD
Accessible Points	16 CFR 1500.48 & 50	Items intended for children under 8 years of age shall not have accessible, potentially hazardous sharp points before or after use and abuse testing	M/GOOD
16 CFR 1500.44 Flammability (solids)	16 CFR 1500.44	Shall not exceed the maximum allowable limit of no greater than 0.1 inches per second	M/GOOD

Rating Key:
M Meets NM Does Not Meet



DEPARTMENT
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HUMAN SERVICES

**DOLLAR GENERAL TEST PROTOCOL FOR
DC-8003-US
Child Appealing Feature (Additional)**

NA Not Applicable NR Not Requested
* Additional Charge For This Test

Testing Parameter	Age (Months)	Abuse Test Conditions
Drop Test	0 to ≤18	4.5 ft (1.37 m), 10 drops
	>18 to ≤36	3 ft (0.91 m), 4 drops
	>36 to ≤96	3 ft (0.91 m), 4 drops
Torque Test	0 to ≤18	2 in - lb (0.23 N - m)
	>18 to ≤36	3 in - lb (0.34 N - m)
	>36 to ≤96	4 in - lb (0.45 N - m)
Tension Test	0 to ≤18	10 lb (44.5 N)
	>18 to ≤36	15 lb (66.8 N)
	>36 to ≤96	15 lb (66.8 N)
Compression Test	0 to ≤18	20 lb (89 N)
	>18 to ≤36	25 lb (111.3 N)
	>36 to ≤96	30 lb (133.5 N)

No. Of Samples Required For Complete Testing:	6
No. Of Working Days For Complete Testing:	7

Sample Number:
Date:

(5507) 207-0562
AUG 9, 2007

Creation Date: May 4, 2006
Last Revision Date: May 23, 2007
Revision No: