

Test Report

Report No.: DGCTT1910033110EN

Date: Oct. 31, 2019

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Applicant: HEADWIND CERAMIC LTD

Address: 7F GOLD UNION COMM BLDG., 70-72 CONNAUGHT ROAD WEST, HONG KONG

Sample Received Date: Oct. 24, 2019

Completed Date: Oct. 30, 2019

The following merchandise was (were) submitted and identified on behalf of the applicant as:

Sample Name: Tall Mug

Sample Model: CDKW060-BK, CDKW060-WH, CDKW060-GY, CDKW060-NV

Exported to: USA

Supplier: Headwind Ceramic Ltd

Country of Origin: China

Sample Color: White, Black, Navy, Grey

Test Result(s): Please refer to next page(s).

Test Requested and Conclusion(s): Please refer to next page(s).

Signed for and on Behalf of CTI

Hilary He



Hilary He / Technical Manager

Consumer Testing Technology Co., Ltd.

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Test Requested and Conclusion(s):

No.	Test Sample	Standard and Requirement	Conclusion(s)
1	Tested materials of submitted samples	U.S.Food and Drug Administration(FDA) CPG Sec. 545.400 Pottery (Ceramics); Imported and Domestic - Cadmium Contamination (CPG 7117.06) & CPG Sec. 545.450 Pottery (Ceramics); Imported and Domestic - Lead Contamination (CPG 7117.07). - Leachable Lead(Pb) & Cadmium(Cd)	PASS
2	Tested materials of submitted samples	San Francisco Superior Court, Case No.938430 on food and beverage use ceramicware – Interior - Extractable Lead (Pb) &Cadmium (Cd)	PASS
3	Tested materials of submitted samples	Canada Consumer Product Safety Act (CCPSA), S.C., c. 21, Glazed Ceramics and Glassware Regulations SOR/2016-175. - Leachable Lead (Pb) & Cadmium (Cd)	PASS
4	Tested materials of submitted samples	Total Lead(Pb)	DATA

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Test Result(s):

U.S.Food and Drug Administration(FDA) CPG Sec. 545.400(CPG 7117.06) & CPG Sec. 545.450 (CPG 7117.07) - Leachable Lead(Pb)&Cadmium(Cd)

Method: With reference to ASTM C738-94(2011), analyzed by Atomic Absorption Spectrometer (AAS) / Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES).

Material No.	Sample	Result(µg/mL)		Conclusion
		Leachable Lead(Pb)	Leachable Cadmium(Cd)	
	Limit (µg/mL)	0.5	0.5	
1	(1)	<0.1	<0.01	PASS
	(2)	<0.1	<0.01	
	(3)	<0.1	<0.01	
	(4)	<0.1	<0.01	
	(5)	<0.1	<0.01	
	(6)	<0.1	<0.01	
	Average	<0.1	<0.01	

- Note:**
1. Volume of 4% Acetic acid used 610 ml
 2. µg/mL = Micrograms per milliliter.
 3. Permissible limits for articles

Category	Criteria	Lead(Pb) (µg/mL)	Cadmium(Cd) (µg/mL)
Flatware	Average of 6 units	3.0	0.5
Small Hollowware other than cups and mugs	Any one of 6 units	2.0	0.5
Cups/mugs	Any one of 6 units	0.5	
Large Hollowware other than pitchers	Any one of 6 units	1.0	0.25
Pitchers	Any one of 6 units	0.5	

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Test Result(s):

San Francisco Superior Court, Case No.938430 - Extractable Lead(Pb) & Cadmium(Cd) on food and beverage use ceramicware – Interior

Method: With reference to ASTM C738-94(2011), analyzed by Atomic Absorption Spectrometer (AAS) / Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES).

Material No.	Sample	Result(mg/L)		Conclusion
		Extractable Lead(Pb)	Extractable Cadmium(Cd)	
	Limit (mg/L)	0.1	0.189	
1	(1)	<0.1	<0.01	PASS
	(2)	<0.1	<0.01	
	(3)	<0.1	<0.01	
	(4)	<0.1	<0.01	
	(5)	<0.1	<0.01	
	(6)	<0.1	<0.01	

- Note:**
1. Volume of 4% Acetic acid used 610 ml.
 2. mg/L = Milligram per liter.
 3. Permissible limits for articles

Category	Criteria	Lead(Pb) (mg/L)	Cadmium(Cd) (mg/L)
Flatware	Average of 6 units	0.226	1.853
Small Hollowware	Any one of 6 units	0.100	0.189
Large Hollowware	Any one of 6 units		0.049

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Test Result(s):

Leachable Lead (Pb)&Cadmium (Cd)

Method: Glazed Ceramics and Glassware Regulations SOR/2016-175 section 1, analyzed by Atomic Absorption Spectrometer (AAS).

Material No.	Sample	Result(mg/L)		Conclusion
		Leachable Lead (Pb)	Leachable Cadmium (Cd)	
	Limit (mg/L)	0.5	0.5	
1	(1)	<0.1	<0.01	PASS
	(2)	<0.1	<0.01	
	(3)	<0.1	<0.01	
	(4)	<0.1	<0.01	
	Average	<0.1	<0.01	

- Note:**
1. Volume of 4% Acetic acid used 610 ml.
 2. mg/L = Micrograms per liter.
 3. Permissible limits for articles

Category	Lead (Pb) (mg/L)	Cadmium (Cd) (mg/L)
Flatware	3.0	0.5
Small Hollow ware other than cups and mugs	2.0	0.5
Cups/mugs	0.5	
Large Hollowware other than pitchers	1.0	0.25
Pitchers	0.5	

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Test Result(s):

Total Lead(Pb)

Method: Canada Health Product Safety Laboratory Book 5 - Laboratory Policies and Procedures Part B: Test Section Method C-02.3:2017(for Polyvinyl Chloride Products), analyzed by Atomic Absorption Spectroscopy (AAS) and Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES).

Material No.	Result (mg/kg)
2	37

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (< RL).
 3. RL (Reporting Limit) = 10 mg/kg.

Test Material List:

Material No.	Description	Location
1	Ceramic cup	Cup (black)
2	White ceramic + white ceramic with dark purple glaze + white ceramic with light grey glaze	Cup (white) + cup (dark purple) + cup (light grey)

Note: "+" = The test result is obtained from composite testing on materials linked with "+" mark, it is possible that individual test result can be higher if the materials are tested separately. This had been taken in account in the conclusion of this report.



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Photo of Sample:



End of Report

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