

Test Report No. 2126664/SD Date : Mar 14 2011 Page 1 of 8

KEEPCUP PTY LTD 156 WESTGARTH STREET, FITZROY VIC 3065 AUSTRALIA

The following samples were submitted and identified on behalf of the client as: RE-USABLE CUP, POLYPROPYLENE BASE AND LID, TPU PLUG AND SILICONE BAND

SGS Job No. : 3765542 Quantity Submitted : 20 PCS.

Manufacturer : KEEPCUP PTY LTD

Country of Origin : CUP / LID / PLUG AUSTRALIA, SILICONE BAND CHINA

Sample Receiving Date : MAR 01, 2011; MAR 10, 2011

Test Performing Date : MAR 01 TO 14, 2011

Test Requested : Please refer to the result summary.

Test Method & Results : Please refer to next page(s).
Result Summary : **Test Requested**

Test Requested	Conclusion
European Commission Directive 2002/72/EC and its amendments and hence Australian Standard AS 2070–1999 Plastics materials for food contact use, Clause 4.1.1 (b). (Selected parts as specified by Client)	
a) Plastic – Overall migration	PASS
b) Plastic – Specific Migration of Primary Aromatic Amine	PASS
2. European Commission Directive 93/11/EEC and Council of Europe Resolution AP (2004) 4 and hence Article 3 of European Regulation No. 1935/2004. (Selected parts as specified by Client)	
a) Rubber – Nitrosamine and Nitrosatable substances content	PASS
b) Rubber – Overall migration	PASS
c) Rubber – Specific migration of Aromatic Amine	PASS
3. State of Connecticut Public Act No. 09-103 – Total Bisphenol A (BPA) content (As Per Clients Request)	PASS
4. For compliance with BS EN 15284:2007 – Materials and articles in contact with foodstuffs – Test method for the resistance to microwave heating of ceramic, glass, glass-ceramic or plastic cookware	PASS
5. Dishwasher Resistance Test (In-house Method)	PASS
6. Temperature Measurement Test (In House Method)	

Signed for and on behalf of SGS Hong Kong Ltd.

Au Kam Chi, Gigi

Assistant Section Manager

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Test Results

1. European Commission Directive 2002/72/EC and its amendments and hence Australian Standard AS 2070–1999 Plastics materials for food contact use, Clause 4.1.1 (b).

a) Plastic - Overall migration

Method: With reference to EN 1186-1:2002 for selection of conditions and test methods;

EN 1186-3:2002 aqueous food simulants by total immersion method;

EN 1186-9:2002 aqueous food simulants by article filling method;

EN 1186-2:2002 olive oil by total immersion method;

EN 1186-8:2002 olive oil by article filling method;

Simulant Used	Test Condition	Result (mg/dm²) 1	Detection Limit (mg/dm²)	Maximum Permissible Limit (mg/dm²)
3% Acetic Acid (W/V) Aqueous Solution	2 hours at 70 ℃	ND	3.0	10
50% Ethanol (V/V) Aqueous Solution	2 hours at 70 ℃	ND	3.0	10
Rectified Olive Oil	2 hours at 70 ℃	ND	3.0	10
Comment		PASS		

Sample Description:

1. Red Plastic (Cup)

Note: 1. mg/dm² = milligram per square decimeter

C = degree Celsius
 ND = Not Detected

Simulant Used	Test Condition	Result (mg/kg)	Detection Limit	Maximum Permissible
		1	(mg/kg)	Limit (mg/kg)
3% Acetic Acid (W/V) Aqueous Solution	2 hours at 70 ℃	ND	5.0	60
50% Ethanol (V/V) Aqueous Solution	2 hours at 70 ℃	ND	5.0	60
Rectified Olive Oil	2 hours at 70 ℃	18.6	5.0	60
Comment		PASS		

Sample Description:

1. Black Plastic (Cap)

Note: 1. mg/kg = milligram per kilogram of foodstuff in contact with

2. °C = degree Celsius 3. ND = Not Detected

To be cont'd...

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Test Results (Cont'd):

- 1. European Commission Directive 2002/72/EC and its amendments and hence Australian Standard AS 2070–1999 Plastics materials for food contact use, Clause 4.1.1 (b). (Cont'd)
- b) Specific Migration of Primary Aromatic Amine

Method: Sample preparation in 3% acetic acid at 70 ℃ for 2 hours with reference to EN 13130-1:2004; followed by analysis with reference to DIN 55610:1986.

Test Item	Result (mg/kg)	Detection Limit	Maximum Permissible
Test item	1 – 2	(mg/kg)	Limit (mg/kg)
Specific migration of Aromatic Amine	ND	0.01	0.01
Comment	PASS		

Sample Description:

- 1. Red Plastic (Cup)
- 2. Black Plastic (Cap)

Note: 1. mg/kg = milligram per kilogram of foodstuff in contact with

C = degree Celsius
 ND = Not Detected

- 2) European Commission Directive 93/11/EEC and Council of Europe Resolution AP (2004) 4
- a) Rubber Nitrosamines and Nitrosatable substances content

Method: Sample preparation with reference to EN 12868:1999, followed by analysis using GC-NPD.

Test Item	Result (mg/kg)	Detection Limit	Permissible Limit
rest item	1	(mg/kg)	(mg/kg)
Nitrosamines	ND	0.01	0.01
Nitrosatable substances	ND	0.1	0.1
Comment	PASS		1

Sample Description:

1. Grey Plastic (Plug)

Note: 1. Nitrosamines tested: N-nitrosodimethylamine (NDMA), N-nitrosodiethylamine (NDEA), N-nitrosodipropylamine (NDPA), N-nitrosodibutylamine (NDBA), N-nitrosopiperidine (NPIP), N-nitrosopyrrolidine (NPYR), N-nitrosomorpholine (NMOR), N-nitrosodibenzylamine (NDBzA), N-nitroso-N-methyl-N-phenylamine (NMPhA), N-nitroso-N-ethyl-N-phenylamine (NEPhA) and N-nitrosodiisononylamine (NDiNA).

- 2. mg/kg = milligram per kilogram
- 3. ND = Not Detected

To be cont'd...

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Test Results (Cont'd):

European Commission Directive 93/11/EEC and Council of Europe Resolution AP (2004) 4 (Cont'd)

b) Rubber - Overall migration

Method: With reference to EN 1186-1:2002 for selection of conditions and test methods;

EN 1186-3:2002 aqueous food simulants by total immersion method;

EN 1186-2:2002 olive oil by total immersion method;

Simulant Used	Test Condition	Result (mg/kg)	Detection Limit	Permissible Limit
		1	(mg/kg)	(mg/kg)
3% Acetic Acid (W/V) Aqueous Solution	2 hours at 40 ℃	ND	5.0	60
50% Ethanol (V/V) Aqueous Solution	2 hours at 40 ℃	5.8	5.0	60
Rectified Olive Oil	2 hours at 40 ℃	6.8	5.0	60
Comment		PASS		

Sample Description:

1. Grey Plastic (Plug)

Note: 1. mg/kg = milligram per kilogram of foodstuff in contact with

C = degree Celsius
 ND = Not Detected

c) Rubber – Specific migration of Aromatic Amine

Method : Sample preparation in 3% acetic acid at 70 ℃ for 2 hours; followed by analysis with reference to DIN 55610:1986.

Test Item	Result (mg/kg)	Detection Limit	Permissible Limit
1 est item	1	(mg/kg)	i eiiiissible Liiiit
Specific migration of Aromatic Amine	ND	0.01	Not Detected
Comment	PASS		

Sample Description:

1. Grey Plastic (Plug)

Note: 1. mg/kg = milligram per kilogram of foodstuff in contact with

2. °C = degree Celsius 3. ND = Not Detected

To be cont'd...

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Test Results (Cont'd):

3. State of Connecticut Public Act No. 09-103 - Total Bisphenol A (BPA) content

Method : Solvent extraction followed by analysis with High Performance Liquid Chromatography – Mass Selective Detector (HPLC-MSD).

Test Item	Result (mg/kg) 1 – 6	Detection Limit (mg/kg)	Requirement
Bisphenol A (BPA)	ND	1	Prohibited
Comment	PASS		

Sample Description:

- 1. Dark Red Plastic Band
- 2. Green Plastic Band
- 3. Yellow Plastic Band
- 4. Black Plastic Band
- 5. Grey Plastic Cup
- 6. Grey Plastic Plug

Note: 1. mg/kg = milligram per kilogram

2. ND = Not Detected

To be cont'd...

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4. Microwave Resistance Test (BS EN 15284:2007)

Scope : The determination of the resistance to microwave heating of cookware made of

ceramic, glass, glass-ceramic or plastics.

No. of Specimen : 3 pcs. of Black cups for testing. Remains as control sample.

Test Method : According to BS EN 15284:2007

Requirements : The item should display no signs of cracking, colour, melting, deformation,

suitability for re-use or charring. (Plastic)

The maximum surface temperature of handles after the short period heating

shall not exceed 60 °C (Plastic).

Test Result : PASS. No noticeable change was found on the samples after test.

Details as below

After the Short Heating Period

Measured Location

Side Surface (Ceramic)

	<u>ure (°C)</u>	<u>m Surface Lemperat</u>	<u>Maximur</u>
Requiremen	Sample C	Sample B	Sample A
Maximum 60	30.6 °C	31.2 °C	30.8 °C
/	29.8 °C	30.6 °C	28.2 °C

 Side Surface (Ceramic)
 28.2 °C
 30.6 °C
 29.8 °C

 Side Surface (Ceramic)
 30.4 °C
 30.4 °C
 30.8 °C

 Bottom Surface (Ceramic)
 31.6 °C
 31.8 °C
 32.2 °C

After the Long Heating Period

Maximum Surface Temperature (°C)

Sample A	<u>Sample B</u>	<u>Sample C</u>
79.4 °C	80.2 °C	78.8 °C
79.2 °C	80.0 °C	78.6 °C
78.8 °C	78.6 °C	77.8 °C
87.8 °C	86.4 °C	85.2 °C
	79.4 °C 79.2 °C 78.8 °C	79.4 °C 80.2 °C 79.2 °C 80.0 °C 78.8 °C 78.6 °C

To be cont'd...

°C

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5. Dishwasher Resistance Test (In-house Method)

Scope : This test describes a procedure for the evaluation of products that claim

to be dishwasher safe or have customer expectation of being

dishwasher safe.

No. of Specimen : 1 pc. per each. Remains as control sample.

No. of Cycles : 10 cycles

Testing Procedures : 1) Visually inspect sample and record any cosmetic defects.

2) Washing the specimen 10 cycles continuously and dries it.

3) After specimen is dry for 30 minutes, examine / inspect from a distance of 30cm and record any observations or differences from

the retained sample.

Cycle Time : Normal Wash – 90 Minutes.

Cycle Water Temperature : Main Wash – 140 Degree F. (60 Degree C.)

Rinse – 130 Degree F. (54 Degree C.)

Detergent Brand : Cascade (Made in USA) in pH of 9 value.

Acceptance Level : No discoloration, deformation, staining of water (water mark), or

substantial deterioration of item's appearance and or function.

Test Result : Details as below

<u>Specimen</u> <u>Result</u> <u>Observation</u>

Cup (Middle Size) PASS No noticeable change after 10 dishwasher cycles. Lid (Middle Size) PASS No noticeable change after 10 dishwasher cycles.

6. Temperature Measurement Test (In House Method)

No. of Specimen : 1 pc.

Testing Procedures : 1) Fill 95°C (±5°C) coffee entirely in the mug

2) Cover the Lid

Measure the coffee temperature after 20mins by thermal couple

Test Result : 71.2°C

To be cont'd...

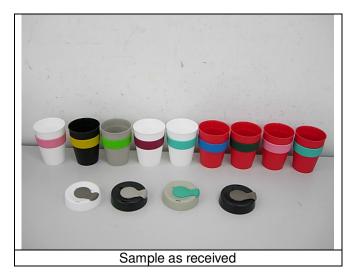
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Photo Appendix



*** End of Report ***

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