



TEST REPORT

Test Report # 19A-006351 Date of Report Issue: November 1, 2019
 Date of Sample Received: October 21, 2019 Pages: Page 1 of 13

CLIENT INFORMATION:

Company:
Address:



SAMPLE INFORMATION:

Product Name:	ECO PLA coffee to go tumbler	Labeled Age Grade:	-
Style No.:	-	Client Request Age Grade:	-
Order No.(PO No.):	-	Recommended Age Grade:	-
Country of Origin:	-	Tested Age Grade:	-
Country of Distribution:	Europe		
Model No.:	P432.83X / P432.89X		
Testing Period:	10/21/2019-10/25/2019		

OVERALL RESULT:



Please refer to the following pages for test result summary and appropriate notes.

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*The test result(s) and conclusion(s) in this report relate to the sample(s) tested as described herein.
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TEST RESULTS SUMMARY:

At the request of the client, the following tests were conducted:

CONCLUSION	TEST(S) CONDUCTED
PASS	Regulation (EC) No 1935/2004, (EU) No 10/2011 and its amendment (EU) 2016/1416-Specific migration of heavy metals
PASS	Regulation (EC) No 1935/2004, (EU) No 10/2011 -Specific migration of Primary Aromatic Amines
PASS	Regulation (EC) No 1935/2004, (EU) No 10/2011- Phthalates content
PASS	Commission Regulation (EU) No 10/2011 and German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB), Section 30&31 with amendments -Sensorial examination odour and taste test
PASS	Commission Regulation (EU) No 10/2011 and German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB), Section 30&31 with amendments - Overall migration
PASS	German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB) Section 30 and BfR recommendation- Volatile Organic Matter
PASS	German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB) Section 30 and BfR recommendation- Peroxide Value
PASS	German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB) Section 30 and BfR recommendation, Extractable Components



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DETAILED RESULTS:

Regulation (EC) No 1935/2004, (EU) No 10/2011 and its amendment (EU) 2016/1416- Specific migration of heavy metals

Test method: Sample preparation in 3% acetic acid at 70°C for 2hours ,ISO 17294-2:2016

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.		2	---	---	---	Maximum permissible Limit (mg/kg)
Test Item	Detection limit	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Barium	0.1	ND	---	---	---	1
Cobalt	0.05	ND	---	---	---	0.05
Copper	0.5	ND	---	---	---	5
Iron	1.0	ND	---	---	---	48
Lithium	0.1	ND	---	---	---	0.6
Manganese	0.1	ND	---	---	---	0.6
Zinc	1.0	ND	---	---	---	5
Aluminum	0.1	ND	---	---	---	1
Nickel	0.01	ND	---	---	---	0.02
Conclusion		PASS	---	---	---	

Note:

mg/kg=milligram per kilogram

ND= Not Detected



**DETAILED RESULTS:****Regulation (EC) No 1935/2004, (EU) No 10/2011 -Specific migration of Primary Aromatic Amines**

Test Method: In House Method

Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		2	---	---	---	Limit (mg/kg)
Test Item	Test condition	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Primary Aromatic Amines migration	70°C, 2h 3% Acetic acid	ND	---	---	---	Non-detectable
Conclusion		PASS	---	---	---	

Note :

mg/kg = milligram per kilogram = ppm

ND = Not Detected (Reporting Limit= 0.01mg/kg)





DETAILED RESULTS:

Regulation (EC) No 1935/2004, (EU) No 10/2011- Phthalates content

Test Method: CPSC-CH-C1001-09.4

Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No	3	---	---	---	---	---	Max. Permissible Limit (% m/m)
Test Item CAS No.	Result (% m/m)	Result (% m/m)	Result (% m/m)	Result (% m/m)	Result (% m/m)	Result (% m/m)	
DBP 84-74-2	ND	---	---	---	---	---	0.05
BBP 85-68-7	ND	---	---	---	---	---	0.1
DEHP 117-81-7	ND	---	---	---	---	---	0.1
DINP 68515-48-0	ND	---	---	---	---	---	0.1
DIDP 68515-49-1	ND	---	---	---	---	---	0.1
DEHA 103-23-1	ND	---	---	---	---	---	
DAP 131-17-9	ND	---	---	---	---	---	
Conclusion	PASS	---	---	---	---	---	

Note:

DBP= Dibutyl phthalate, BBP= Butyl benzyl phthalate, DEHP=Di-2-ethylhexyl phthalate, DINP= Di-*iso*-nonyl phthalate, DIDP= Di-*iso*-decyl phthalate, DEHA= Bis-(2-ethylhexyl) adipate, DAP= Phthalic acid, diallyl ester
% m/m = Percent by mass

LT = Less than

ND = Not detected (Reporting Limit = 0.015 % m/m)



**DETAILED RESULTS:****Commission Regulation (EU) No 10/2011 and German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB), Section 30&31 with amendments -Sensorial examination odour and taste test**

Test Method: DIN 10955: 2004
Test condition: 70°C, 2 hours
Test media: Distilled water
No. of panelist: 6

Specimen No.	4	---	---	---	Max.Permissible Limit
Test Item	Result	Result	Result	Result	
Sensorial examination odour (Point scale)	0	---	---	---	2.5
Sensorial examination taste (Point scale)	0	---	---	---	2.5
Conclusion	PASS	---	---	---	

Scale evaluation:

- 0: No perceptible odour
- 1: Odour just perceptible (still difficult to define)
- 2: Moderate odour
- 3: Moderately strong odour
- 4: Strong odour



**DETAILED RESULTS:****Commission Regulation (EU) No 10/2011 and German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB), Section 30&31 with amendments - Overall migration**

Test method: EN1186-1:2002: for selection of conditions and test methods
EN1186-9:2002: aqueous food simulants by article filling

Specimen No.		2	---	---	Maximum permissible Limit (mg/dm ²)
Simulant used	Test condition	Result (mg/dm ²)	Result (mg/dm ²)	Result (mg/dm ²)	
10% ethanol	2 hours at 70°C	ND	---	---	10
3% acetic acid	2 hours at 70°C	ND	---	---	10
Conclusion		PASS	---	---	

Note:

mg/dm² = milligram per square decimeter

ND = Not Detected (Reporting limit = 3 mg/dm²)





DETAILED RESULTS:

German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB) Section 30 and BfR recommendation- Volatile Organic Matter

Test Method: Bundesgesundheitsbl. 46 (2003) 362

Analytical Method: Gravimetric method

Specimen No.		1	---	---	---	Limit (%w/w)
Test Item	Test condition	Result (% w/w)	Result (% w/w)	Result (% w/w)	Result (% w/w)	
Volatile Organic Matter	70°C,2h	ND	---	---	---	0.5
Conclusion		PASS	---	---	---	

Note:

% w/w = Percent by weight

ND = Not detected (Reporting Limit = 0.1%)

LT = Less than



**DETAILED RESULTS:****German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB) Section 30 and BfR recommendation- Peroxide Value**

Analysis performed by titration method to determine compliance with the above referenced Regulation.
[Referenced Test Method: Bundesgesundheitsblatt 40 (1997)412]

Specimen No.	1	---	---	---	---	Limit
Test Item	Result	Result	Result	Result	Result	
Peroxide Value	ND	---	---	---	---	Absent
Conclusion	PASS	---	---	---	---	

Note:

ND = Not detected (Reporting Limit = 0.01%)

Finished products must not test positively for peroxides





DETAILED RESULTS:

German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB) Section 30 and BfR recommendation, Extractable Components

Analysis performed by food simulating solvents extractions to determine compliance with the above referenced regulation. [Referenced Test Method: 61st Communication on testing of plastics in Bundesgesundheitsblatt 46 (2003) 362]

Specimen No.			1	---	---	Limit (% w/w)
Test Simulant	Test Condition		Result (% w/w)	Result (% w/w)	Result (% w/w)	
		Temperature	Duration			
10% Ethanol	Reflux	5 hours	ND	---	---	0.5
3% acetic acid	Reflux	5 hours	ND	---	---	0.5
Conclusion			PASS	---	---	

Note:

°C = Degree Celsius

% w/w = Percent by weight

LT = Less than

ND = Not detected (Reporting Limit = 0.1 %)





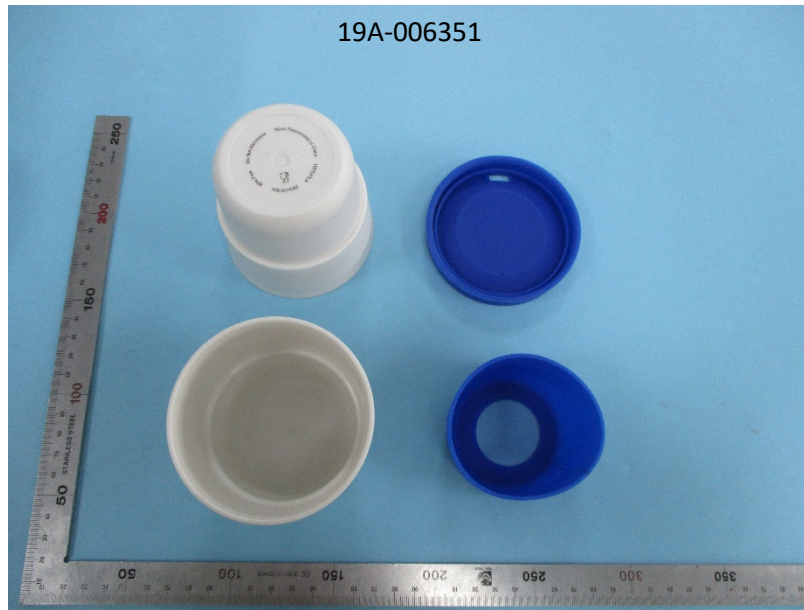
SPECIMEN DESCRIPTION:

Specimen No.	Specimen Description	Location
1	Blue soft plastic	Lid
2	White plastic	Interior of cup
3	White plastic	Main body of cup
4	ECO PLA coffee to go tumbler	Finished product





SAMPLE PHOTO:





PRODUCT PHOTO:



-End Report-

