

# Test Report

Report No.: CTT180510408EN

Date: May 30, 2018

Page 1 of 3

**Applicant:** XIAMEN ZI HENG ENVIRONMENTAL PROTECTION TECHNOLOGY CO.,LTD

**Address:** FLOOR 1-2, FLOOR 2, FLOOR 4-1, NO. 18, XIANGHAI ROAD, (XIANG'AN) IND. ZONE, TORCH HIGH-TECH ZONE,XIAMEN,FUJIAN,CHINA

The following merchandise was (were) submitted and identified by client as:

**Sample Name:** BOPS Plastic Blister lid

**Manufacturer:** Xiamen Zi Heng Environmental Protection Technology Co., Ltd.

**Country of Origin:** China(mainland)

**Sample Received Date:** May 25, 2018

**Completed Date:** May 30, 2018

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

## Test Requested and Conclusion(s):

No.	Test Sample	Standard and Requirement	Conclusion(s)
1	Submitted sample	COMMISSION REGULATION (EU)No.10/2011 on plastic materials and articles intended to come into contact with food. - Overall migration - Soluble heavy metal	PASS

Signed for and on Behalf of CTT



Hilary He / Technical Manager  
Consumer Testing Technology Co., Ltd.

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**Test Result(s):**

Overall migration

Method: With reference to EN1186-1:2002& EN1186-3:2002& EN1186-14:2002

Material No.	Description	Location
1	Transparent plastic	Bowl lid

Material No.	Test Condition	Limit (mg/dm <sup>2</sup> )	Result (mg/dm <sup>2</sup> )	Conclusion
1	10% Ethanol(v/v), 70°C, 2 hours	10	<3	PASS
	3% Acetic acid(w/v), 70°C, 2 hours	10	<3	PASS
	95% Ethanol(v/v), 60°C, 2 hours	10	<3	PASS
	Isooctane, 40°C, 0.5 hours	10	<3	PASS

- Note:**
1. mg/dm<sup>2</sup> = milligram per square decimetre of surface area of material or article.
  2. The requirement in accordance with the Commission Regulation (EU) No 10/2011.

Soluble heavy metal <sup>n</sup>

Method: Preparation in 3% Acetic acid(w/v) at 70°C for 2 hours, was analyzed by Inductively Coupled Plasma Mass Spectrometer (ICP-MS).

Material No.	Description	Location
1	Transparent plastic	Bowl lid

Elements	Ba	Co	Cu	Fe	Li	Mn	Zn	Al	Ni	Conclusion
Limit (mg/kg)	1	0.05	5	48	0.6	0.6	5	1	0.02	
Material No.	Result (mg/kg)									PASS
1	<0.1	<0.05	<0.5	<1	<0.1	<0.05	<1	<0.1	<0.01	

- Note:**
1. mg/kg = milligrams of the constituents released per kilogram of foodstuff.
  2. The requirement in accordance with the Commission Regulation (EU) No 10/2011 and amendment.



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Photo of Sample:



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The following merchandise was (were) submitted and identified by client as:

**Sample Name:** BOPS Plastic Blister lid

**Manufacturer:** Xiamen Zi Heng Environmental Protection Technology Co., Ltd.

**Country of Origin:** China(mainland)

**Sample Received Date:** May 25, 2018

**Completed Date:** May 29, 2018

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

## Test Requested and Conclusion(s):

No.	Test Sample	Standard and Requirement	Conclusion(s)
1	Submitted sample	US FDA 21 CFR 177.1640: Polystyrene and rubber-modified polystyrene. - Total residual styrene monomer content.	PASS

Signed for and on Behalf of CTT



Hilary He / Technical Manager  
Consumer Testing Technology Co., Ltd.

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# Test Report

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**Test Result(s):**

US FDA 21 CFR 177.1640 - Total residual styrene monomer content

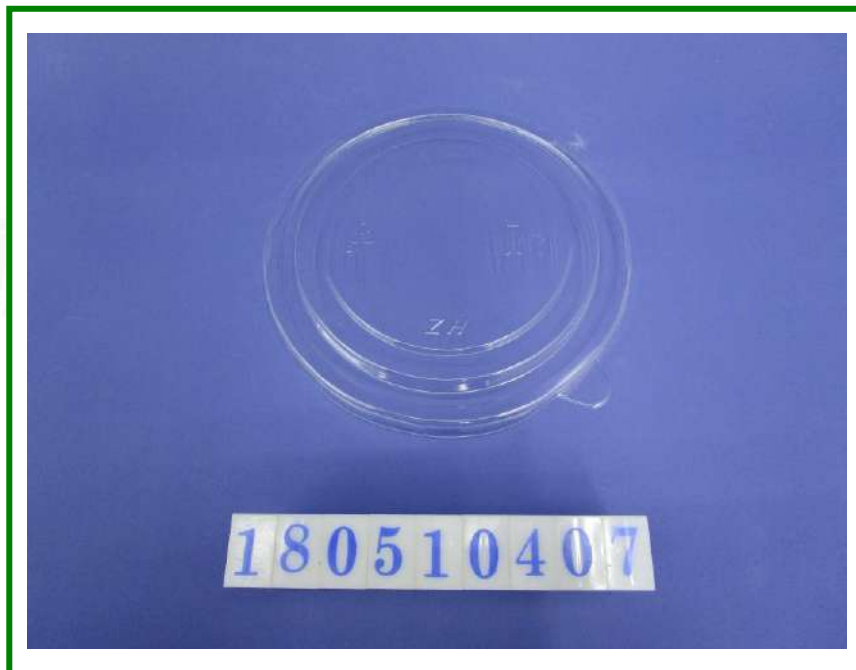
Method: US FDA 21 CFR 177.1640(d), was analyzed by Gas Chromatograph-Mass Spectrometer (GC-MS).

Material No.	Description	Location
1	Transparent plastic	Bowl lid

Material No.	Limit(%)	Result(%)	Conclusion
1	0.5	0.0437	PASS

- Note:**
1. % = Percent by weight.
  2. N.D. = Not Detected (< RL).
  3. RL (Report Limit) = 0.0005%.

**Photo of Sample:**



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**Address:** FLOOR 1-2, FLOOR 2, FLOOR 4-1, NO. 18, XIANGHAI ROAD, (XIANG'AN) IND. ZONE, TORCH HIGH-TECH ZONE,XIAMEN,FUJIAN,CHINA

The following merchandise was (were) submitted and identified by client as:

**Sample Name:** Kraft paper bowl

**Manufacturer:** Xiamen Zi Heng Environmental Protection Technology Co., Ltd.

**Country of Origin:** China(mainland)

**Sample Received Date:** May 25, 2018

**Completed Date:** May 30, 2018

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

## Test Requested and Conclusion(s):

No.	Test Sample	Standard and Requirement	Conclusion(s)
1	Submitted sample	US FDA 21 CFR 176.170: Components of paper and paperboard in contact with aqueous and fatty foods. - Chloroform-soluble extractives in Distilled water - Chloroform-soluble extractives in 8% Alcohol - Chloroform-soluble extractives in 50% Alcohol - Chloroform-soluble extractives in n-Heptane	PASS

Signed for and on Behalf of CTT

*Hilary He*



Hilary He / Technical Manager

Consumer Testing Technology Co., Ltd.

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**Test Result(s):**

US FDA 21 CFR 176.170 - Chloroform-soluble extractives

Method: With reference to US FDA 21 CFR 176.170

Material No.	Description	Location
1	Brown kraft paper	Paper bowl

Material No.	Test Condition	Limit (mg/inch <sup>2</sup> )	Result (mg/inch <sup>2</sup> )	Conclusion
1	Distilled water Fill boiling, cool to 100°F	0.5	<0.3	PASS
	8% Alcohol at 150°F for 2 hours	0.5	<0.3	PASS
	50% Alcohol at 150°F for 2 hours	0.5	<0.3	PASS
	n-Heptane at 120°F for 15 minutes	0.5	<0.3	PASS

- Note:**
1. mg/inch<sup>2</sup> = milligram per square inch.
  2. °F = Degrees Fahrenheit.

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Photo of Sample:



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# Test Report

No. SHAEC1901823401

Date: 25 Feb 2019

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XIAMEN ZIHENG ENVIRONMENTAL PROTECTION TECHNOLOGY CO. LTD  
 NO.18, XIANGHAI ROAD, XIANG `AN TORCH HIGH-TECH ZONE, XIAMEN, CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : Kraft Paper Bowl

SGS Job No. : SP19-002806 - SH  
 Model No. : KRA750  
 Country of Destination : EU  
 Date of Sample Received : 24 Jan 2019  
 Testing Period : 24 Jan 2019 - 25 Feb 2019  
 Test Requested : Selected test(s) as requested by client.  
 Test Method : Please refer to next page(s).  
 Test Results : Please refer to next page(s).

Result Summary :

Test Requested	Conclusion
French Décret 2007-766 with amendments, DGCCRF Methodological Sheet "File organic materials - plant fibers" – Preserving effect	PASS
French Décret 2007-766 with amendments, DGCCRF Methodological Sheet "File organic materials - plant fibers" - Pentachlorophenol (PCP)	PASS

Signed for and on behalf of  
 SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.



Helen Liu  
 Approved Signatory



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# Test Report

No. SHAEC1901823401

Date: 25 Feb 2019

Page 2 of 3

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	SHA19-018234.002	Brown carton	Paper

Remarks :

- (1) mg/dm<sup>2</sup> = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C= degree Celsius
- (4) < = less than
- (5) MDL = Method Detection Limit
- (6) ND = Not Detected ( < MDL)

**French Décret 2007-766 with amendments, DGCCRF Methodological Sheet "File organic materials - plant fibers" – Preserving effect**

Test Method : With reference to EN 1104:2005 using Bacillus subtilis and Aspergillus niger as challenging culture.

Test Item(s)	Limit	002
Bacillus subtilis ATCC No. 6633	★	Absent
Aspergillus niger ATCC No.6275	★	Absent
<b>Conclusion</b>		<b>PASS</b>

Notes :

- (1) ★ = Absence of zone inhibition
- (2) Absent denotes absence of Antimicrobial constituents which inhibits the growth of tested bacteria and fungus

**French Décret 2007-766 with amendments, DGCCRF Methodological Sheet "File organic materials - plant fibers" - Pentachlorophenol (PCP)**

Test Method : With reference to ISO 17070:2015, analysis was performed by GC-ECD or GC-MS.

Test Item(s)	Limit	Unit	MDL	002
Pentachlorophenol (PCP)	0.1	mg/kg	0.05	ND
<b>Conclusion</b>				<b>PASS</b>



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Sample photo:



SGS authenticate the photo on original report only

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# Test Report

Report No.: CTT180510410ENR1

Date: Aug. 03, 2018

Page 1 of 5

**Applicant:** XIAMEN ZI HENG ENVIRONMENTAL PROTECTION TECHNOLOGY CO.,LTD

**Address:** FLOOR 1-2, FLOOR 2, FLOOR 4-1, NO. 18, XIANGHAI ROAD, (XIANG'AN) IND. ZONE, TORCH HIGH-TECH ZONE,XIAMEN,FUJIAN,CHINA

The following merchandise was (were) submitted and identified by client as:

**Sample Name:** Kraft paper bowl

**Manufacturer:** Xiamen Zi Heng Environmental Protection Technology Co., Ltd.

**Country of Origin:** China(mainland)

**Sample Received Date:** May 25, 2018

**Completed Date:** Aug. 03, 2018

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

## Test Requested and Conclusion(s):

No.	Test Sample	Standard and Requirement	Conclusion(s)
1	Submitted sampl	REGULATION (EC) No 1935/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on materials and articles intended to come into contact with food. - Extractable Heavy Metals(Lead(Pb), Cadmium(Cd),Mercury(Hg)) - Pentachlorophenol(PCP) - Formaldehyde	PASS
2	Submitted sampl	Resolution AP (2002)1 Paper and Board Material and Articles Intended to Come into Contact with Foodstuffs on determination of the transfer of antimicrobial constituents	PASS
3	Submitted sampl	Resolution AP (2002)1 Paper and Board Material and Articles Intended to Come into Contact with Foodstuffs on fastness of fluorescent whitening agents	PASS

Signed for and on Behalf of CTT

Hilary He



Hilary He / Technical Manager

Consumer Testing Technology Co., Ltd.

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**Test Result(s):**

Extractable Heavy Metals(Lead(Pb), Cadmium(Cd),Mercury(Hg))

Method:

Lead(Pb)/Cadmium(Cd): With reference to EN 12498:2005, was analyzed by Inductively Coupled Plasma Mass Spectrometer (ICP-MS).

Mercury(Hg): With reference to EN 12497:2005, was analyzed by Inductively Coupled Plasma Mass Spectrometer (ICP-MS).

Material No.	Description	Location
1	Brown kraft paper	Paper bowl

Elements	Pb	Cd	Hg	Conclusion
Limit (mg/dm <sup>2</sup> )	0.003	0.002	0.002	
Material No.	Result (mg/dm <sup>2</sup> )			PASS
1	<0.002	<0.002	<0.002	

**Note:** 1. mg/dm<sup>2</sup> = milligram per square decimetre of surface area of material or article.

Pentachlorophenol(PCP)

Method: With reference to EN ISO 15320:2011, analyzed by Gas Chromatograph-Mass Spectrometry (GC-MS).

Material No.	Description	Location
1	Brown kraft paper	Paper bowl

Material No.	Limit (mg/kg)	Result (mg/kg)	Conclusion
1	0.15	N.D.	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
  2. N.D. = Not Detected (< RL).
  3. RL (Reporting Limit) = 0.1 mg/kg.

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**Test Result(s):**

Specific migration of Formaldehyde

Method: With reference to CEN/TS 13130-23:2005, analyzed by Ultraviolet visible Spectroscopy (UV-Vis) .

Material No.	Description	Location
1	Brown kraft paper	Paper bowl

Material No.	Limit(mg/dm <sup>2</sup> )	Result(mg/dm <sup>2</sup> )	Conclusion
1	1	<1	PASS

**Note:** 1. mg/dm<sup>2</sup> = milligram per square decimetre of surface area of material or article.

Determination of the Transfer of Antimicrobial Constituents <sup>s</sup>

Method: With reference to BS EN 1104:2005 Paper and board intended to come into contact with foodstuffs—  
Determination of the transfer of antimicrobial constituents.

Test culture: Aspergillus niger (ATCC 6275)

Bacillus subtilis (ATCC 6633)

Material No.	Description	Location
1	Brown kraft paper	Paper bowl

Material No.	Test Culture	Result	Specification
1	Aspergillus niger (ATCC 6275)	Absent	Absence of zone inhibition
	Bacillus subtilis (ATCC 6633)	Absent	Absence of zone inhibition

**Note:** 1. Sample received condition: Sample in closed plastic bag.

**Test Result(s):**

Fastness of Fluorescent whitening agents <sup>s</sup>

Method: As per BS EN 648:2006 procedure A (long duration contact).

Side tested: single side

Material No.	Description	Location
1	Brown kraft paper	Paper bowl

Material No.	Test Fluid	Evaluation against Fluorescent Whitened Agent Paper
1*	Deionized Water	No staining (Grade 5)
	Aqueous Acetic Acid 3.0% (m/v)	No staining (Grade 5)
	Saliva Simulant 5g/L	No staining (Grade 5)
	Rectified Olive Oil	No staining (Grade 5)

- Note:**
- Limit: No staining (Grade 5).
  - "\*" = This sample is received on Jul. 24, 2018.

**Remark:** CTT180510410EN is replaced by this report.



Report No.: CTT180510410ENR1

Date: Aug. 03, 2018

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Photo of Sample:



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Dongguan Consumer Testing  
Technology Co.,Ltd.

No.7, Gongye Beisi Road, Songshanhu High-Tech Industrial Development Park, Dongguan, Guangdong, China.

Tel: 86-0769-8898 9888

Fax:86-0769-8898 8808

E-mail: [enquiry@cttlab.com](mailto:enquiry@cttlab.com)

Hotline:400 6789 666

Website: <http://www.cttlab.com>





# Test Report

Report No.: CTT180510401EN

Date: May 29, 2018

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**Address:** FLOOR 1-2, FLOOR 2, FLOOR 4-1, NO. 18, XIANGHAI ROAD, (XIANG'AN) IND. ZONE, TORCH HIGH-TECH ZONE,XIAMEN,FUJIAN,CHINA

The following merchandise was (were) submitted and identified by client as:

**Sample Name:** PP Plastic injection molding cup

**Manufacturer:** Xiamen Zi Heng Environmental Protection Technology Co., Ltd.

**Country of Origin:** China(mainland)

**Sample Received Date:** May 25, 2018

**Completed Date:** May 29, 2018

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

## Test Requested and Conclusion(s):

No.	Test Sample	Standard and Requirement	Conclusion(s)
1	Submitted sample	US FDA 21 CFR 177.1520: Olefin polymers(PP copolymer). - Density - Extractable fraction in n-Hexane - Extractable fraction in Xylene	PASS

Signed for and on Behalf of CTT



Hilary He / Technical Manager

Consumer Testing Technology Co., Ltd.

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# Test Report

Report No.: CTT180510401EN

Date: May 29, 2018

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**Test Result(s):**

US FDA 21 CFR 177.1520 - Olefin polymers(PP copolymer).

Method:

Density - ASTM D1505-10

Maximum extractable fraction in n-Hexane - US FDA 21 CFR 177.1520

Maximum extractable fraction in Xylene - US FDA 21 CFR 177.1520

Material No.	Description	Location
1	Transparent plastic	Cup body

Material No.	Test Item	Limit	Result	Conclusion
1	Density	0.850-1.00g/cm <sup>3</sup>	0.899g/cm <sup>3</sup>	PASS
	Maximum extractable fraction in n-Hexane, 50°C,2 hours	5.5%	1.57%	PASS
	Maximum extractable fraction in Xylene , Refluxing,2 hours, 25°C standing for 1 hour at least	30%	7.53%	PASS

**Note:** 1. g/cm<sup>3</sup> = grams per cubic centimeter.

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Dongguan Consumer Testing Technology Co.,Ltd.

No.7, Gongye Beisi Road, Songshanhu High-Tech Industrial Development Park, Dongguan, Guangdong, China.  
Tel: 86-0769-8898 9888 Fax:86-0769-8898 8808 E-mail: [enquiry@cttlab.com](mailto:enquiry@cttlab.com)  
Website: <http://www.cttlab.com>

Hotline:400 6789 666

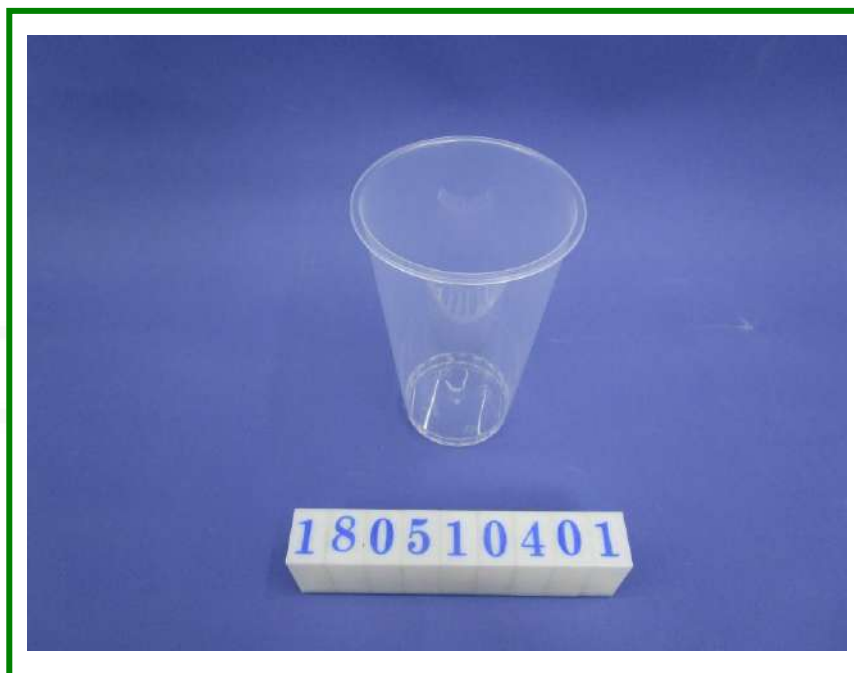


Report No.: CTT180510401EN

Date: May 29, 2018

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Photo of Sample:



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Website: <http://www.cttlab.com>

Hotline:400 6789 666



# Test Report

Report No.: CTT180510402EN

Date: May 30, 2018

Page 1 of 3

**Applicant:** XIAMEN ZI HENG ENVIRONMENTAL PROTECTION TECHNOLOGY CO.,LTD

**Address:** FLOOR 1-2, FLOOR 2, FLOOR 4-1, NO. 18, XIANGHAI ROAD, (XIANG'AN) IND. ZONE, TORCH HIGH-TECH ZONE,XIAMEN,FUJIAN,CHINA

The following merchandise was (were) submitted and identified by client as:

**Sample Name:** PP Plastic injection molding cup

**Manufacturer:** Xiamen Zi Heng Environmental Protection Technology Co., Ltd.

**Country of Origin:** China(mainland)

**Sample Received Date:** May 25, 2018

**Completed Date:** May 30, 2018

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

## Test Requested and Conclusion(s):

No.	Test Sample	Standard and Requirement	Conclusion(s)
1	Submitted sample	COMMISSION REGULATION (EU)No.10/2011 on plastic materials and articles intended to come into contact with food. - Overall migration - Soluble heavy metal	PASS

Signed for and on Behalf of CTT



Hilary He / Technical Manager  
Consumer Testing Technology Co., Ltd.

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Tel: 86-0769-8898 9888

Fax:86-0769-8898 8808

E-mail: [enquiry@cttlab.com](mailto:enquiry@cttlab.com)

Hotline:400 6789 666

Website: <http://www.cttlab.com>



**Test Result(s):**

Overall migration

Method: With reference to EN1186-1:2002& EN1186-9:2002& EN1186-14:2002

Material No.	Description	Location
1	Transparent plastic	Cup body

Material No.	Test Condition	Limit (mg/dm <sup>2</sup> )	Result (mg/dm <sup>2</sup> )	Conclusion
1	50% Ethanol(v/v), 70°C, 2 hours	10	<3	PASS
	3% Acetic acid(w/v), 70°C, 2 hours	10	<3	PASS
	95% Ethanol(v/v), 60°C, 2 hours	10	4.0	PASS
	Isooctane, 40°C, 0.5 hours	10	<3	PASS

- Note:**
1. mg/dm<sup>2</sup> = milligram per square decimetre of surface area of material or article.
  2. The requirement in accordance with the Commission Regulation (EU) No 10/2011.

Soluble heavy metal <sup>n</sup>

Method: Preparation in 3% Acetic acid(w/v) at 70°C for 2 hours, was analyzed by Inductively Coupled Plasma Mass Spectrometer (ICP-MS).

Material No.	Description	Location
1	Transparent plastic	Cup body

Elements	Ba	Co	Cu	Fe	Li	Mn	Zn	Al	Ni	Conclusion
Limit (mg/kg)	1	0.05	5	48	0.6	0.6	5	1	0.02	
Material No.	Result (mg/kg)									PASS
1	<0.1	<0.05	<0.5	<1	<0.1	<0.05	<1	<0.1	<0.01	

- Note:**
1. mg/kg = milligrams of the constituents released per kilogram of foodstuff.
  2. The requirement in accordance with the Commission Regulation (EU) No 10/2011 and amendment.



Report No.: CTT180510402EN

Date: May 30, 2018

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Photo of Sample:



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# Test Report

Report No.: CTT180510380EN

Date: May 30, 2018

Page 1 of 3

**Applicant:** XIAMEN ZI HENG ENVIRONMENTAL PROTECTION TECHNOLOGY CO.,LTD

**Address:** FLOOR 1-2, FLOOR 2, FLOOR 4-1, NO. 18, XIANGHAI ROAD, (XIANG'AN) IND. ZONE, TORCH HIGH-TECH ZONE,XIAMEN,FUJIAN,CHINA

The following merchandise was (were) submitted and identified by client as:

**Sample Name:** PP Plastic injection molding lid

**Manufacturer:** Xiamen Zi Heng Environmental Protection Technology Co., Ltd.

**Country of Origin:** China(mainland)

**Sample Received Date:** May 25, 2018

**Completed Date:** May 30, 2018

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

## Test Requested and Conclusion(s):

No.	Test Sample	Standard and Requirement	Conclusion(s)
1	Submitted sample	COMMISSION REGULATION (EU)No.10/2011 on plastic materials and articles intended to come into contact with food. - Overall migration - Soluble heavy metal	PASS

Signed for and on Behalf of CTT

*Hilary He*



Hilary He / Technical Manager  
Consumer Testing Technology Co., Ltd.

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Tel: 86-0769-8898 9888

Fax:86-0769-8898 8808

E-mail: [enquiry@cttlab.com](mailto:enquiry@cttlab.com)

Hotline:400 6789 666

Website: <http://www.cttlab.com>



**Test Result(s):**

Overall migration

Method: With reference to EN1186-1:2002& EN1186-3:2002& EN1186-14:2002

Material No.	Description	Location
1	Transparent plastic	Cup lid

Material No.	Test Condition	Limit (mg/dm <sup>2</sup> )	Result (mg/dm <sup>2</sup> )	Conclusion
1	50% Ethanol(v/v), 70°C, 2 hours	10	<3	PASS
	3% Acetic acid(w/v), 70°C, 2 hours	10	<3	PASS
	95% Ethanol(v/v), 60°C, 2 hours	10	<3	PASS
	Isooctane, 40°C, 0.5 hours	10	<3	PASS

- Note:**
1. mg/dm<sup>2</sup> = milligram per square decimetre of surface area of material or article.
  2. The requirement in accordance with the Commission Regulation (EU) No 10/2011.

Soluble heavy metal <sup>n</sup>

Method: Preparation in 3% Acetic acid(w/v) at 70°C for 2 hours, was analyzed by Inductively Coupled Plasma Mass Spectrometer (ICP-MS).

Material No.	Description	Location
1	Transparent plastic	Cup lid

Elements	Ba	Co	Cu	Fe	Li	Mn	Zn	Al	Ni	Conclusion
Limit (mg/kg)	1	0.05	5	48	0.6	0.6	5	1	0.02	
Material No.	Result (mg/kg)									PASS
1	<0.1	<0.05	<0.5	<1	<0.1	<0.05	<1	<0.1	<0.01	

- Note:**
1. mg/kg = milligrams of the constituents released per kilogram of foodstuff.
  2. The requirement in accordance with the Commission Regulation (EU) No 10/2011 and amendment.



Report No.: CTT180510380EN

Date: May 30, 2018

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Photo of Sample:



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# Test Report

Report No.: CTT180510379EN

Date: May 29, 2018

Page 1 of 3

**Applicant:** XIAMEN ZI HENG ENVIRONMENTAL PROTECTION TECHNOLOGY CO.,LTD

**Address:** FLOOR 1-2, FLOOR 2, FLOOR 4-1, NO. 18, XIANGHAI ROAD, (XIANG'AN) IND. ZONE, TORCH HIGH-TECH ZONE,XIAMEN,FUJIAN,CHINA

The following merchandise was (were) submitted and identified by client as:

**Sample Name:** PP Plastic injection molding lid

**Manufacturer:** Xiamen Zi Heng Environmental Protection Technology Co., Ltd.

**Country of Origin:** China(mainland)

**Sample Received Date:** May 25, 2018

**Completed Date:** May 29, 2018

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

## Test Requested and Conclusion(s):

No.	Test Sample	Standard and Requirement	Conclusion(s)
1	Submitted sample	US FDA 21 CFR 177.1520: Olefin polymers(PP copolymer). - Density - Extractable fraction in n-Hexane - Extractable fraction in Xylene	PASS

Signed for and on Behalf of CTT



Hilary He / Technical Manager

Consumer Testing Technology Co., Ltd.

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# Test Report

Report No.: CTT180510379EN

Date: May 29, 2018

Page 2 of 3

**Test Result(s):**

US FDA 21 CFR 177.1520 - Olefin polymers(PP copolymer).

Method:

Density - ASTM D1505-10

Maximum extractable fraction in n-Hexane - US FDA 21 CFR 177.1520

Maximum extractable fraction in Xylene - US FDA 21 CFR 177.1520

Material No.	Description	Location
1	Transparent plastic	Cup lid

Material No.	Test Item	Limit	Result	Conclusion
1	Density	0.850-1.00g/cm <sup>3</sup>	0.903g/cm <sup>3</sup>	PASS
	Maximum extractable fraction in n-Hexane, 50°C,2 hours	5.5%	0.18%	PASS
	Maximum extractable fraction in Xylene , Refluxing,2 hours, 25°C standing for 1 hour at least	30%	2.81%	PASS

**Note:** 1. g/cm<sup>3</sup> = grams per cubic centimeter.

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Photo of Sample:



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