

TEST REPORT

APPLICANT : TAIZHOU CITY HUANGYAN RUIBOTE PLASTIC CO.,LTD
ADDRESS : No.998 Yuxin Village, Xinqian Subdistrict, Huangyan District, Taizhou City, Zhejiang Province, China
SAMPLE DESCRIPTION : Plastic box (PP yellow box)
SAMPLE RECEIVED DATE : 09-Jun-2014
TURN AROUND TIME : 09-Jun-2014 To 10-Jun-2014, 2 working days
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)

Eurofins (Shanghai) contact informationCustomer service: ZoeGao@eurofins.com / 021-61819254Sales specialist: DaisyTang@eurofins.com / 021-61819211 / 13918740918

***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

Signed for and on behalf of
Eurofins Product Testing Service (Shanghai) Co., Ltd



Chris Zhang
Lab Manager

SAMPLE PHOTO



EFSH14060435-CG-02

TO BE CONTINUED

COMPONENT LIST

Component No.	Component
1	PP yellow box

TO BE CONTINUED

TEST RESULT

Sensorial examination odour and taste test

Test Requested : In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31, European Commission Directive EU (EU) No 10/2011 and its amendment (EU) No 1282/2011 and BfR recommendation.
Sensorial examination odour and taste test

Test Method : Robinson's test with reference to DIN 10955:1983 (2004)
Odour test condition: 70°C 2hours
Taste test condition: 70°C 2hours
Test media: Distilled water
No. of panelist: 5

Test Item(s)	Limit	Result
		1
Sensorial examination odour (Point scale)	2.5	1.0
Sensorial examination taste (Point scale)	2.5	1.0

Scale evaluation:

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

TO BE CONTINUED

TEST RESULT

Overall Migration

Test Requested : In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31, European Commission Regulation (EU) No 10/2011 and its amendment (EU) No 1282/2011, and BfR recommendation.
For material: PP -Overall migration test

Test Method : With reference to EN 1186-1:2002 for selection of conditions and test methods;
or EN1186-3:2002 aqueous food simulants by total immersion method;
or EN1186-9:2002 aqueous food simulants by article filling method;
or EN1186-2:2002 olive oil by total immersion method;
or EN1186-8:2002 olive oil by article filling method;
or EN 1186-14:2002 substitute test

Simulant used	Time	Temperature	Max. Permissible Limit	Result (mg/dm ²)
				1
3% Acetic Acid	2hrs	70°C	10 mg/dm ²	<1.0
50% Ethanol	2hrs	70°C	10 mg/dm ²	<1.0
95% Ethanol (V/V) Aqueous Solution (Rectified Olive Oil Substitute)	2hrs	60°C	10 mg/dm ²	<1.0
Isooctane (Rectified Olive Oil Substitute)	0.5hr	40°C	10 mg/dm ²	<1.0

Note:

- (1) Analytical tolerance of aqueous simulants is 1 mg/dm²
- (2) Analytical tolerance of fatty food simulants is 3 mg/dm²
- (3) Test condition & simulant were specified by client.

TO BE CONTINUED

TEST RESULT

Chromium, Vanadium Zirconium and Hafnium content

Test Requested : In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31, European Commission Regulation (EU) No 10/2011 and its amendment (EU) No 1282/2011, and BfR recommendation.
For material: PP - Catalyst residue, Chromium, Vanadium, Zirconium and Hafnium content

Test Method : Acid digestion, followed by analysis using ICP-OES.

Test Item(s)	Limit	Unit	MDL	Result
				1
Total Chromium	10	mg/kg	5	ND
Total Vanadium	20	mg/kg	20	ND
Total Zirconium	100	mg/kg	20	ND
Total Hafnium	100	mg/kg	20	ND

Note:

(1) mg/kg = milligram per kilogram

Specific Migration of Heavy Metal

Test Requested : To determine the Specific Migration of Heavy Metal for compliance with European Commission Regulation (EU) No 10/2011 and its amendment (EU) No 1282/2011 on plastic materials and articles intended to come into contact with food.

Test Method : With reference to EU 10/2011 for selection of test method; analysis was performed by ICP-OES.

Simulant used: 3% Acetic Acid (W/V) Aqueous Solution.

Test condition: 70°C 2hours

Test Item(s)	Max. Permissible limit	Unit	MDL	Test Result
				1
Barium	1	mg/kg	0.25	ND
Cobalt	0.05	mg/kg	0.05	ND
Copper	5	mg/kg	0.25	ND
Iron	48	mg/kg	0.25	ND
Lithium	0.6	mg/kg	0.5	ND
Manganese	0.6	mg/kg	0.25	ND
Zinc	25	mg/kg	0.5	ND

Note:

- (1) mg/kg = milligram per kilogram
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected(<MDL)
- (4) Test condition & simulant were specified by client.

*** END OF THE REPORT ***