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TEST REPORT

APPLICANT : Koopman International B.V.

ADDRESS : Distelweg 88 1031 HH Amsterdam

SAMPLE DESCRIPTION : Funnel

MODEL NO. : 179640010

SAMPLE RECEIVED DATE : 12-Dec-2013

TURN AROUND TIME : 12-Dec-2013 To 18-Dec-2013, 5 working days

TEST REQUESTED : Selected test(s) as requested by client

TEST METHOD : Please refer to next page(s).

TEST RESULT : Please refer to next page(s).

CONCLUSION : Pass

Note: The test(s) requirements as requested by client

Eurofins (Shanghai) contact information

Customer service: FloraZhuang@eurofins.com / 021-61819120 / 13761635324

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

Signed for and on behalf of

This 2hours

Eurofins Product Testing Service (Shanghai) Co., Ltd

Chris Zhang Lab Manager



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SAMPLE PHOTO



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COMPONENT LIST

Component No.	Component			
1	Grey PP			
2	White PP			



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TEST RESULT

1. 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, 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 0.5hour Taste test condition: 70°C 0.5hour

Test media: Distilled water

No. of panelist: 5

Toot Itom/o)	Limit	Result		
Test Item(s)	Lillin	1	2	
Sensorial examination odour (Point scale)	2.5	0.0	0.0	
Sensorial examination taste (Point scale)	2.5	0.0	0.0	

Scale evaluation:

0: No perceptible odour

1: Odour just perceptible (still difficult to define)

2: Moderate odour

3: Moderately strong odour

4: Strong odour

2. 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, 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	Tomporatura	Max. Permissible	Result (mg/dm²)	
	Time	Time Temperature	Limit	1	2
3% Acetic Acid	0.5hr	70℃	10 mg/dm ²	<3.0	<3.0
20% Ethanol	0.5hr	70℃	10 mg/dm ²	<3.0	<3.0

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.



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TEST RESULT

3. 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 0.5hour

Test Item(s)	Max. Permissible	e Unit	MDI	Test Result		
	limit		MDL	1	2	
Barium	1	mg/kg	0.25	ND	ND	
Cobalt	0.05	mg/kg	0.05	ND	ND	
Copper	5	mg/kg	0.25	ND	ND	
Iron	48	mg/kg	0.25	ND	ND	
Lithium	0.6	mg/kg	0.5	ND	ND	
Manganese	0.6	mg/kg	0.25	ND	ND	
Zinc	25	mg/kg	0.5	ND	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.

4. Cadmium and Lead Content

Test Requested: In accordance with German Food, Articles of Daily Use and Feed Code of

September 1, 2005 (LFGB), Section 30 and 31, Council of Europe Resolution AP (2004) 4 and BfR recommendation, European Commission Directive 93/11/EEC.

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

Test Item(s)	Limit	I I m ta	MDL	Test Result		
		Unit	MIDL	1	2	
Total Lead content	100	mg/kg	10	ND	ND	
Total Cadmium content	100	ma/ka	5	ND	ND	

Note:

ND = not detected, less than MDL MDL = method detection limit



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5. Specific Migration of Phthalates

Test Requested: To determine the Specific Migration of Phthalates for compliance with European

Commission Regulation (EU) No 10/2011 and its amendment (EU) No 1282/2011

relating to plastic materials and articles intended to come into contact with

foodstuffs

Test Method: Sample preparation with reference to EN 13130-1: 2004 with selection of simulant

and condition, followed by analysis by GC-MS

Simulant used: 95% Ethanol (V/V) Aqueous Solution

Test condition: 60°C 0.5hour

Toot Itom(s)	CAS No. Permissible Limit		Unit	MDL	Specific Migration	
Test Item(s)			Unit	MDL	1	2
Benzylbutyl Phthalate(BBP)	85-68-7	30	mg/kg	0.25	ND	ND
Dibutyl Phthalate(DBP)	84-74-2	0.3	mg/kg	0.05	ND	ND
Di (2-ethylhexyl) Phthalate(DEHP)	117-81-7	1.5	mg/kg	0.25	ND	ND
Sum of (DINP+ DIDP)	-	9	mg/kg	2.00	ND	ND
Diallyl phthalate(DAP)	131-17-9	ND	mg/kg	0.01	ND	ND

Note:

- (1) Test condition & simulant were specified by client.
- (2) 1mg/kg=1ppm=0.0001%
- (3) ND = Not detected
- (4) MDL = Method Detection Limit

6. Specific migration test of aromatic amine

Test Requested: In accordance with German Food, Articles of Daily Use and Feed Code of

September 1, 2005 (LFGB), Section 30 and 31, BfR recommendation.

Test Method: Sample preparation with reference to EN 1186-1,-9:2002, followed by analysis

with reference to DIN 55610:1986.

Simulant used : 3% Acetic Acid Test condition : 70℃ 0.5hour

Toot Hom(a)	st Item(s) Max. Permissible Unit		MDL	Specific Migration		
Test Item(s)	Limit	Offic	MDL	1	2	
Specific migration of aromatic amine	Absent	mg/kg	0.01	Absent	Absent	

Note:

(1) Test condition & simulant were specified by client.



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7. 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, BfR recommendation.

Test Method:

With reference to EPA3051A:2007 and DIN EN ISO 11885: 2009,

acid digestion, followed by analysis using ICP-OES.

Test Item(s)	Limit	Unit	MDL	Result	
	Lilling	Onit	MDL	1	2
Total Chromium	10	mg/kg	5	ND	ND
Total Vanadium	20	mg/kg	20	ND	ND
Total Zirconium	100	mg/kg	20	ND	ND
Total Hafnium	100	mg/kg	20	ND	ND

Note:

ND = not detected, less than MDL MDL = method detection limit



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TEST RESULT

8. Polycyclic Aromatic Hydrocarbons (PAHs)

Test specification : 18 Polycyclic Aromatic Hydrocarbons in polymers (PAHs) (defined in US EPA Method

610, and also Based on the document ZEK 01.4-08)

Test method : Solvent extraction and quantification by gas chromatography-mass selective detection

(GC-MS) with respect to ZEK 01.4-08

Client's Requirement : Category 1 (for foodcontact materials):

Sum of 18 PAH: 0.2mg/kg Benzo(a)pyrene: 0.2mg/kg

Parameter	CAS No.	Unit	Re	sult
raiameter	CAS No.	Onit	1	2
Group PAHs		mg/kg	ND	ND
Acenaphthene	83-32-9	mg/kg	ND	ND
Acenaphthylene	208-96-8	mg/kg	ND	ND
Anthracene	120-12-7	mg/kg	ND	ND
Benz(a)anthracene	56-55-3	mg/kg	ND	ND
Benzo(a)pyrene	50-32-8	mg/kg	ND	ND
Benzo(b)fluoranthene	205-99-2	mg/kg	ND	ND
Benzo(ghi)perylene	191-24-2	mg/kg	ND	ND
Benzo(k)fluoranthene	207-08-9	mg/kg	ND	ND
Chrysene	218-01-9	mg/kg	ND	ND
Dibenzo(a,h)anthracene	53-70-3	mg/kg	ND	ND
Fluoranthene	206-44-0	mg/kg	ND	ND
Fluorene	86-73-7	mg/kg	ND	ND
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	ND	ND
Naphthalene	91-20-3	mg/kg	ND	ND
Phenanthrene	1985-1-8	mg/kg	ND	ND
Pyrene	129-00-0	mg/kg	ND	ND
Benzo(j)fluoranthene	205-82-3	mg/kg	ND	ND
Benzo(e)pyrene	192-97-2	mg/kg	ND	ND
Summary to above mentioned requirement:	For Category 1		Pass	Pass

Note:

mg/kg = milligram per kilogram ND=not detected, less than 0.1 mg/kg

*** END OF THE REPORT ***