



**BUREAU
VERITAS**

TEST REPORT

Technical Report: (6615)345-1696

DEC.21, 2015

Date Received: DEC.14, 2015
Date Modified: /

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Sample Description: PP TABLEWARE

Color:	/	P.O. No.:	/
Model:	/	Product End Use:	/
No./Style No.:	/	Retest No.:	/
Age Grade:	/	Supplier Reference:	/
Vendor:	/	Country of Origin:	CHINA
Manufacturer:	/	Country of Destination:	/
Buyer:	/	Test Period:	DEC.14, 2015 to DEC.21, 2015

SUMMARY OF TEST RESULTS

TEST REQUESTED	CONCLUSION
Sensory Test (Odour and Taste) for Materials in Contact with Foodstuffs – EC No. 1935/2004 and § 30 and 31 LFGB	PASS
Overall Migration Test for Plastic Materials in Contact with Foodstuffs – Commission Regulation (EU) No. 10/2011 and Its Amendments	PASS
Specific Migration of Heavy Metals for Plastic Materials in Contact with Foodstuffs – Commission Regulation (EU) No. 10/2011 and Its Amendments	PASS
Specific Migration of Heavy Metals for Plastic Materials in Contact with Foodstuffs – Draft Amendment of Commission Regulation (EU) No 10/2011	PASS
Peroxides Value for Plastic Materials in Contact with Foodstuffs – § 30 and 31 LFGB and BfR Recommendation	PASS
Total Chromium, Hafnium, Vanadium and Zirconium Content for Plastic Materials in Contact with Foodstuffs – § 30 and 31 LFGB and BfR Recommendation	PASS
Olefin Polymers - Polypropylene Homopolymer - U.S. FDA 21 CFR 177.1520	PASS

Remark: The client specified the test items.

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CONSUMER PRODUCTS SERVICES DIVISION (SHANGHAI)

Operation Manager-Hardline Division



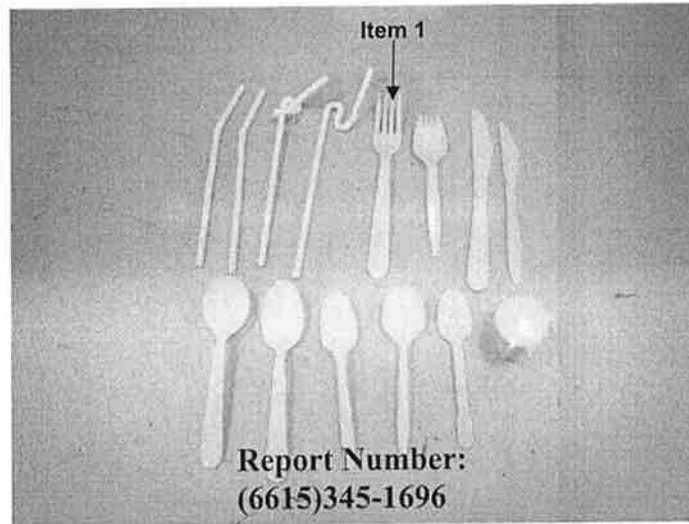
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Photo of the Submitted Sample





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TEST RESULT

Sample Description Assigned by Laboratory:

Test Item	Description	Client Claimed Material
1	White fork	PP

I. Sensory Test (Odour and Taste) for Materials in Contact with Foodstuffs – EC No. 1935/2004 and § 30 and 31 LFGB

Parameter	Result	Maximum Allowable Limit
	1	
Odour transfer into foodstuff through simulant, Mineral Water	0	2.5 Scale
Odour transfer into foodstuff through simulant, Coconut Fat	0	2.5 Scale
Taste transfer into foodstuff through simulant, Mineral Water	0	2.5 Scale
Taste transfer into foodstuff through simulant, Coconut Fat	0	2.5 Scale
Conclusion	PASS	-

Note: Scale: 0 = no perceptible off-odour (or taste transfer);
 1 = off-odour (or taste transfer) just perceptible (but still difficult to define);
 2 = slight off-odour (or taste transfer);
 3 = distinct off-odour (or taste transfer);
 4 = strong off-odour (or taste transfer)

Method: DIN 10955: 2004-06

II. Overall Migration Test for Plastic Materials in Contact with Foodstuffs – Commission Regulation (EU) No. 10/2011 and Its Amendments

Test Condition: 3% Acetic acid: 70 °C, 2 hrs
 50% Ethanol: 70 °C, 2 hrs
 Iso-octane: 40 °C, 0.5 hr
 95% Ethanol: 60 °C, 4 hrs

Simulant Used	Unit	Result	Maximum Allowable Limit	Analytical Tolerance
		1		
Food contact surface area	dm ²	1.00	-	-
Volume of simulant used	mL	100	-	-
3% Acetic acid	mg/dm ²	6.2	10	+2
50% Ethanol	mg/dm ²	<5	10	+3
Iso-octane	mg/dm ²	<5	10	+3
95% Ethanol	mg/dm ²	<5	10	+3
Conclusion	-	PASS	-	-



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Note: "<" = less than
mg/dm² = milligram per square decimeter

Method: EN 1186-1: 2002, EN 1186-2: 2002, EN 1186-3: 2002 and EN 1186-14: 2002

Remark: 1) The migration test is carried out according to EC Regulation No. 10/2011 and the corresponding regulatory statutes.
2) For article intended for single use, only single determination is carried out in the migration tests and the test result is shown in result table.

III. Specific Migration of Heavy Metals for Plastic Materials in Contact with Foodstuffs – Commission Regulation (EU) No. 10/2011 and Its Amendments

Test Condition: 3% Acetic acid: 70 °C, 2 hrs

Parameter	Simulant Used	Unit	Result	Maximum Allowable Limit
			1	
Food contact surface area	-	dm ²	0.60	-
Volume of simulant used	-	mL	100	-
Barium (Ba)	3% Acetic acid	mg/kg	<0.1	1
Cobalt (Co)	3% Acetic acid	mg/kg	<0.005	0.05
Copper (Cu)	3% Acetic acid	mg/kg	<0.5	5
Iron (Fe)	3% Acetic acid	mg/kg	<5	48
Lithium (Li)	3% Acetic acid	mg/kg	<0.1	0.6
Manganese (Mn)	3% Acetic acid	mg/kg	<0.1	0.6
Zinc (Zn)	3% Acetic acid	mg/kg	<3	25
Conclusion	-	-	PASS	-

Note: "<" = less than
mg/kg = milligram per kilogram

Method: EN 13130-1: 2004 and analysis by Inductively Coupled Argon Plasma Spectrometer (ICP).

Remark: 1) The migration test is carried out according to EC Regulation No. 10/2011 and the corresponding regulatory statutes.

2) For article intended for single use, only single determination is carried out in the migration tests and the test result is shown in result table.



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IV. Specific Migration of Heavy Metals for Plastic Materials in Contact with Foodstuffs – Draft Amendment of Commission Regulation (EU) No 10/2011

Test Condition: 3% Acetic acid: 70 °C, 2 hrs

Parameter	Simulant Used	Unit	Result	Maximum Allowable Limit
			1	
Food contact surface area	-	dm ²	0.60	-
Volume of stimulant used	-	mL	100	-
Aluminum (Al)	3% Acetic acid	mg/kg	<0.1	1
Nickel (Ni)	3% Acetic acid	mg/kg	<0.002	0.02
Zinc (Zn)	3% Acetic acid	mg/kg	<1	5
Conclusion	-	-	PASS	-

Note: "<" = less than
mg/kg = milligram per kilogram

Method: EN 13130-1: 2004 and analysis by Inductively Coupled Argon Plasma Spectrometer (ICP).

Remark: 1) The migration test is carried out according to EC Regulation No. 10/2011 and the corresponding regulatory statutes.

2) For article intended for single use, only single determination is carried out in the migration tests and the test result is shown in result table.

V. Peroxides Value for Plastic Materials in Contact with Foodstuffs – § 30 and 31 LFGB and BfR Recommendation

Parameter	Result	Maximum Allowable Limit
	1	
Peroxides	Absent	Absent
Conclusion	PASS	-

Method: European Pharmacopeia 5.0, Ph. Eur. Method 2.5.5.

Remark: The limit refers to BfR Recommendation VII.

VI. Total Chromium, Hafnium, Vanadium and Zirconium Content for Plastic Materials in Contact with Foodstuffs – § 30 and 31 LFGB and BfR Recommendation

Parameter	Unit	Result	Maximum Allowable Limit
		1	
Total Chromium (Cr)	mg/kg	<2	10
Total Hafnium (Hf)	mg/kg	<10	100
Total Vanadium (V)	mg/kg	<2	20
Total Zirconium (Zr)	mg/kg	82.5	100
Conclusion	-	PASS	-

Note: "<" = less than
mg/kg = milligram per kilogram

Method: Acid digestion and analysis by Inductively Coupled Argon Plasma Spectrometer (ICP).



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Remark: The limit refers to BfR Recommendation VII.

VII. Olefin Polymers - Polypropylene Homopolymer - U.S. FDA 21 CFR 177.1520

Parameter	Unit	Result	Limit
		1	
Density	g/cm ³	0.912	0.880-0.913
Melting Point	°C	161.9	160-180
Total Extractives (n-Hexane)	% w/w	0.9	≤ 6.4
Total Extractives (Xylene)	% w/w	2.3	≤ 9.8
Conclusion	-	PASS	-

Note: g/cm³ = gram per cubic centimetre
% w/w = percent weight by weight
"<" = less than
"≤" = less than or equal to

Method: U.S. FDA 21 CFR 177.1520

END