



**BUREAU  
VERITAS**

# TEST REPORT

Technical Report: (6618)079-0779

MAR. 30, 2018

Date Received: MAR. 20, 2018

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Sample Description: Sample(s) received is/are stated to be:  
PS TABLEWARE

Color:	/	Style No(s):	/
Order No.:	/	PO No.:	/
Model No.:	/	Batch No.:	/
Age Grade:	/	Product End Use:	/
Vendor:	/	Retest No.:	/
Manufacturer:	/	Supplier Reference:	/
Buyer:	/	Country of Origin:	CHINA
Test Period:	MAR. 20, 2018 to MAR. 30, 2018	Country of Destination:	/

## 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
Peroxides Value for Plastic Materials in Contact with Foodstuffs – § 30 and 31 LFGB and BfR Recommendation	PASS
Volatile Organic Matter Content for Plastic Materials in Contact with Foodstuffs § 30 and 31 LFGB and BfR Recommendation	PASS
Polystyrene and Rubber-Modified Polystyrene - U.S. FDA 21 CFR 177.1640	PASS

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Hyde Bao  
PRODUCT LINE MANAGER(HARDLINE DIVISON)



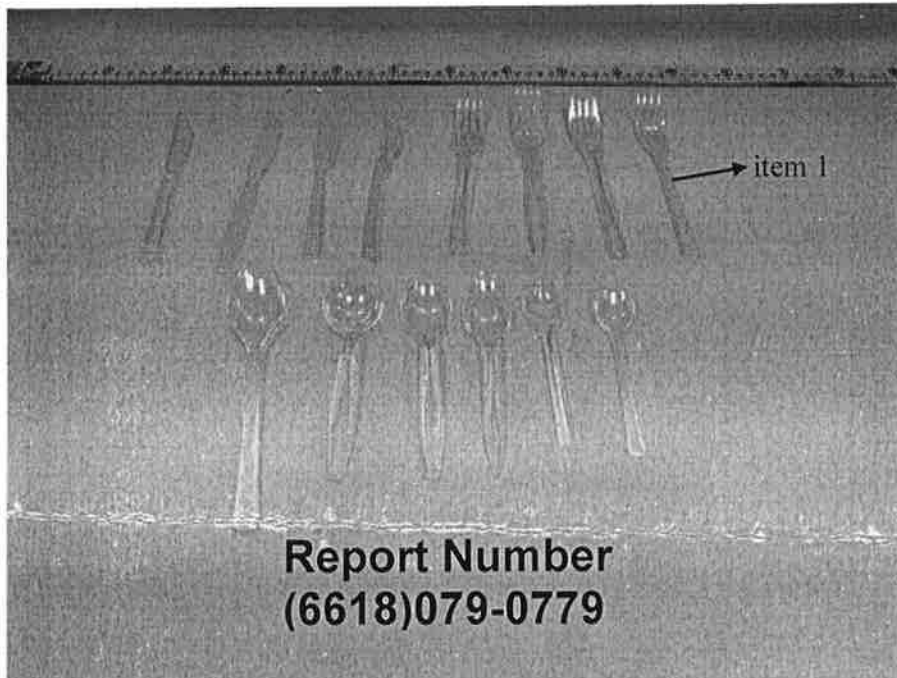
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Photo of the Submitted Sample





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### TEST RESULT

**Sample Description Assigned by Laboratory:**

Test Item	Description	Client Claimed Material
1	Transparent plastic fork	PS

**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
<b>Conclusion</b>	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

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

Test Condition: OM 3: 2 h at 70 °C (3% Acetic acid and 50% Ethanol)  
 OM 3: 2 h at 60 °C (95% Ethanol)  
 OM 3: 0.5 h at 40 °C (Iso-octane)

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

Note: "<" = less than  
 mg/dm<sup>2</sup> = milligram per square decimeter

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



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- 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.

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

Test Condition: 2 h at 70 °C (3% Acetic acid)

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

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

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

Remark: The migration test is carried out according to EU regulation No. 10/2011 and the corresponding regulatory statutes.

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

Parameter	Result	Maximum Allowable Limit
	1	
Peroxides	Present	Absent
<b>Conclusion</b>	PASS	-

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

Remark: The limit refers to BfR Recommendation V.



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**Volatile Organic Matter Content for Plastic Materials in Contact with Foodstuffs – § 30 and 31 LFGB and BfR Recommendation**

Parameter	Unit	Result	Maximum Allowable Limit
		1	
Volatile Organic Matter	mg/dm <sup>2</sup>	2.97	15
<b>Conclusion</b>	-	PASS	-

Note: "<" = less than  
mg/dm<sup>2</sup> = milligram per square decimeter

Method: Gravimetric method.

Remark: The limit refers to BfR Recommendation V.

**Polystyrene and Rubber-Modified Polystyrene - U.S. FDA 21 CFR 177.1640**

Parameter	Unit	Result	Limit
		1	
Total residual styrene monomer	% w/w	<0.05	≤ 0.5/ 1.0 (See remark)
<b>Conclusion</b>	-	PASS	-

Note: "<" = less than  
"≤" = less than or equal to  
% w/w = percent weight by weight

Method: U.S. FDA 21 CFR 177.1640

Remark: 1) Requirement for polystyrene basic polymers:  
 ≤ 0.5% (for articles intended for use in contact with fatty foods)  
 ≤ 1.0% (for articles intended for use in contact with non-fatty foods)

2) Requirement for rubber-modified polystyrene basic polymers:  
 ≤ 0.5% (for articles intended for use in contact with foods)

END