



# TEST REPORT

LAB NO. : (2421)361-0076  
 DATE : Jan. 29, 2022  
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Applicant:  
**SHENYANG GREEN PLASTIC TECHNOLOGY CO.,LTD**  
 NO.16, SOUTH THIRD ROAD, SHENYANG OFFSHORE ECONOMIC ZONE, LIAONING PROVINCE

Date of Submission: 2021-12-27  
 Test Period: 2021-12-27 to 2022-01-29

Sample Description:	Bag in box		
Sample Status:	Intact		
Manufacturer:	shenyang green plastic technology co.,ltd	Buyer:	/
Style No.(s):	1. Transparent bag 2. Aluminum film bag 3. Aluminum foil bag	PO No.:	/
Country of Origin:	/	Country of Destination:	/
Color:	/		

Test Item(s): Details see attached page(s).

<b>SUMMARY OF TEST RESULTS</b>
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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, Commission Regulation (EU) No. 2020/1245 and Its Amendments	PASS
Specific Migration of Heavy Metals for Plastic Materials in Contact with Foodstuffs – Commission Regulation (EU) No. 10/2011, Commission Regulation (EU) No. 2020/1245 and Its Amendments	PASS
Total Chromium, Hafnium, Vanadium and Zirconium Content for Plastic Materials in Contact with Foodstuffs – § 30 and 31 LFGB and BfR Recommendation	PASS
Peroxides Value for Plastic Materials in Contact with Foodstuffs – § 30 and 31 LFGB and BfR Recommendation	PASS

Note: The tested part of the sample was specified by client.  
 The test conclusion was given based on the results of tested part.  
 Selected test items as requested by applicants.

### REMARK

If there are questions or concerns on this report, please contact the following persons:

Customer service

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PREPARED BY: Jessie

**BUREAU VERITAS TESTING TECHNICAL SERVICE (ZHEJIANG) CO.,LTD**

*Jane Ye.*

Jane Ye  
 TECHNICAL MANAGER

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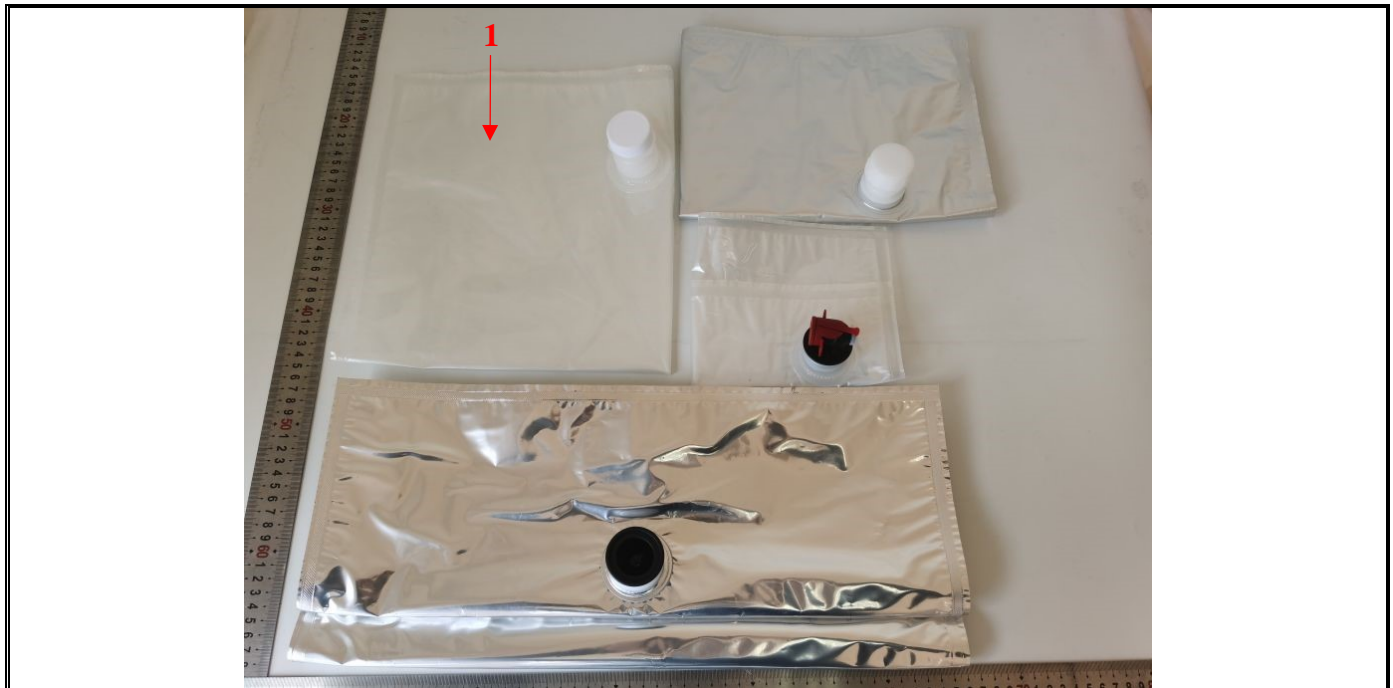
**BUREAU  
VERITAS**

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**Sample Description Assigned by Laboratory:**

Test Item	Description	Client Claimed Material
1	Transparent plastic	PE

**Photo of the Submitted Sample**



**24213610076**



**TEST RESULT**

**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, Coconut fat	0	2.5 Scale
Taste transfer into foodstuff through simulant, Coconut fat	0	2.5 Scale
Odour transfer into foodstuff through simulant, Mineral water	0	2.5 Scale
Taste transfer into foodstuff through simulant, Mineral water	0	2.5 Scale
<b>Conclusion</b>	<b>PASS</b>	-

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, Commission Regulation (EU) No. 2020/1245 and Its Amendments**

Test Condition: 10 d at 40 °C (3% Acetic acid)  
10 d at 40 °C (50% Ethanol)  
10 d at 40 °C (95% Ethanol)  
2 d at 20 °C (Iso-octane)

Simulant Used	Unit	Result			Maximum Allowable Limit (3 <sup>rd</sup> )	Analytical Tolerance
		1st Migrate	2nd Migrate	3rd Migrate		
Food contact surface area	dm <sup>2</sup>	1.0			-	-
Volume of stimulant used	mL	100			-	-
3% Acetic acid	mg/dm <sup>2</sup>	<5	<5	<5	10	+2
50% Ethanol	mg/dm <sup>2</sup>	<5	<5	<5	10	+2
95% Ethanol	mg/dm <sup>2</sup>	<5	<5	<5	10	+3
Iso-octane	mg/dm <sup>2</sup>	<5	<5	<5	10	+3
<b>Conclusion</b>	-	<b>PASS</b>			-	-

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

Method: EN 1186-1: 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 repeated use, the migration tests are carried out three times on the same test sample.
- 3) Test condition and simulant were specified by client.

**III. Specific Migration of Heavy Metals for Plastic Materials in Contact with Foodstuffs – Commission Regulation (EU) No. 10/2011, Commission Regulation (EU) No. 2020/1245 and Its Amendments**

Test Condition: 10 d at 40 °C (3% Acetic acid)

Parameter	Simulant Used	Unit	Result			Maximum Allowable Limit(3rd)
			1			
			1st Migrate	2nd Migrate	3rd Migrate	
Food contact surface area	-	dm <sup>2</sup>	0.6			-
Volume of stimulant used	-	mL	100			-
Barium (Ba)	3% Acetic acid	mg/kg	<0.1	<0.1	<0.1	1
Cobalt (Co)	3% Acetic acid	mg/kg	<0.01	<0.01	<0.01	0.05
Copper (Cu)	3% Acetic acid	mg/kg	<0.5	<0.5	<0.5	5
Iron (Fe)	3% Acetic acid	mg/kg	<5	<5	<5	48
Lithium (Li)	3% Acetic acid	mg/kg	<0.1	<0.1	<0.1	0.6
Manganese (Mn)	3% Acetic acid	mg/kg	<0.1	<0.1	<0.1	0.6
Zinc (Zn)	3% Acetic acid	mg/kg	<0.1	<0.1	<0.1	5
Aluminum (Al)	3% Acetic acid	mg/kg	<0.1	<0.1	<0.1	1
Nickel (Ni)	3% Acetic acid	mg/kg	<0.01	<0.01	<0.01	0.02
Antimony (Sb)	3% Acetic acid	mg/kg	<0.01	<0.01	<0.01	0.04
Arsenic (As)	3% Acetic acid	mg/kg	<0.01	<0.01	<0.01	Not detected
Cadmium (Cd)	3% Acetic acid	mg/kg	<0.002	<0.002	<0.002	Not detected
Chromium (Cr)	3% Acetic acid	mg/kg	<0.01	<0.01	<0.01	Not detected
Europium (Eu)	3% Acetic acid	mg/kg	<0.01	<0.01	<0.01	0.05
Gadolinium (Gd)	3% Acetic acid	mg/kg	<0.01	<0.01	<0.01	0.05
Lanthanum (La)	3% Acetic acid	mg/kg	<0.01	<0.01	<0.01	0.05
Lead (Pb)	3% Acetic acid	mg/kg	<0.01	<0.01	<0.01	Not detected
Mercury (Hg)	3% Acetic acid	mg/kg	<0.01	<0.01	<0.01	Not detected
Terbium (Tb)	3% Acetic acid	mg/kg	<0.01	<0.01	<0.01	0.05
Sum of Europium (Eu), Gadolinium (Gd), Lanthanum (La), and/or Terbium (Tb)	3% Acetic acid	mg/kg	<0.01	<0.01	<0.01	0.05
<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: 1) The migration test is carried out according to EU regulation No. 10/2011 and the corresponding regulatory statutes.



- 2) For article intended for repeated use, the migration tests are carried out three times on the same test sample.
- 3) Due to the fact that SML for As, Cr, Pb, Hg is specified as not detectable meaning < 0.01 mg/kg and SML for Cd is specified as not detectable meaning < 0.002 mg/kg analysis and assessment has to be performed using the 1st migrate in any case no matter whether article/materials is intended for single or repeated use.
- 4) Test condition was specified by client.

**IV. 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	<10	100
<b>Conclusion</b>	-	PASS	-

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

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

Remark: The limit refers to BfR Recommendation III.

**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
<b>Conclusion</b>	PASS	-

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

Remark: The limit refers to BfR Recommendation III.

END