

The following sample was submitted and identified on behalf of the client as below:

SGS Job No. :
 Sample Description : PP WOVEN SHOPPING BAG
 Color : MULTICOLOR
 Manufacturer :
 Buyer :
 Date of Production : APR 2019
 Country of Origin :
 Country of Destination : FRANCE
 Sample Receiving Date : AUGUST 29, 2019
 Final confirmed Date : AUGUST 29, 2019
 Testing Period : AUGUST 29, 2019 TO SEPTEMBER 20, 2019
 Test Requested : PLEASE REFER TO THE RESULT SUMMARY.
 Test Results : PLEASE REFER TO NEXT PAGE(S).
 Result Summary :

Test Requested	Conclusion
French Décret 2007-766 with amendments, DGCCRF Methodological Sheet “File organic materials – synthetic matter” and European Commission Regulation (EU) No 10/2011 with amendments.	--
a) Polypropylene – Overall Migration	Pass/ See result
b) Polypropylene – Specific Migration of Heavy Metals	Pass/ See result
c) Polypropylene – Specific Migration of Primary Aromatic Amine	Pass/ See result
d) Polypropylene – Specific Migration of Phthalates	Pass/ See result
French Décret 2007-766 with amendments and French Law 2012-1442 of 24 Dec 2012	--
Polypropylene – Total Content of Bisphenol A	Pass/ See result
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with Amendments.	--
Colour Release	Pass/ See result
European Regulation (EC) No. 1907/2006 (REACH) Annex XVII and its amendments - Polycyclic Aromatic Hydrocarbons (PAHs) content	Pass/ See result
European Directive 94/62/EC – Total Lead, Cadmium, Mercury and Hexavalent Chromium content	Pass/ See result

Signed for and on behalf of
SGS Vietnam LTD



Hardline and E&E Lab Manager

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Test Report

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Test result(s):

Test part description:

No.	Component(s)	Material	Color
1	PP WOVEN SHOPPING BAG	POLYPROPYLENE	MULTI (OUTSIDE) WHITE (INSIDE)

1. **French Décret 2007-766 with amendments, DGCCRF Methodological Sheet “File organic materials – synthetic matter” and European Commission Regulation (EU) No 10/2011 with amendments.**

a) Polypropylene – Overall migration

Method: With reference to aqueous food simulants by cell method (3rd Migration);

Simulant Used	Test Condition	Result (mg/dm ²)	Reporting Limit (mg/dm ²)	Permissible Limit (mg/dm ²)
		1		
10% Ethanol (V/V) Aqueous Solution	10 days at 40 °C	ND	3.0	10
Comment	--	PASS	--	--

Note: 1. mg/kg = milligram per kilogram of foodstuff in contact with
 2. °C = degree Celsius
 3. ND = Not Detected
 4. Permissible Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.

Remark:

- Analytical tolerance of aqueous simulants is 2mg/dm² or 12mg/kg
- Analytical tolerance of fatty food simulants is 3mg/dm² or 20mg/kg

Remark: As client confirmation, the sample is contacted with water only.
 This/These test(s) was/were performed by SGS Vietnam’s chemical lab.

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b) Polypropylene – Specific Migration of Heavy Metals

Method: With reference to Analysis was performed by ICP-OES. Simulant Used:
3% acetic acid (w/v) in aqueous solution
Test Condition: 40 °C for 24 hours (3rd Migration)

Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
	1		
Specific Migration of Aluminium	ND	0.1	1
Specific Migration of Barium	ND	0.25	1
Specific Migration of Cobalt	ND	0.01	0.05
Specific Migration of Copper	ND	0.25	5
Specific Migration of Iron	ND	0.25	48
Specific Migration of Lithium	ND	0.5	0.6
Specific Migration of Manganese	ND	0.25	0.6
Specific Migration of Nickel	ND	0.01	0.02
Specific Migration of Zinc	ND	0.5	5
Comment	PASS	--	--

Note: 1. mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius
3. ND = Not Detected
4. Permissible Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.

Remark:

1. Test condition & simulant were specified by client.
2. The ratio of surface area to volume ratio is 0.95 dm² per 1 kg of foodstuff in contact with.
3. The volume of simulant used is 100 mL.

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c) Polypropylene – Specific migration of Primary Aromatic Amine

Method: With reference to EN 13130-1:2004 and BfR Recommendation XXI. Analysis was performed by UV-vis Spectrophotometer.

Simulant Used: 3% acetic acid (w/v) in aqueous solution

Test Condition: 40°C for 24 hours (3rd Migration)

Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
	1		
Specific migration of Primary Aromatic Amine	ND	0.002	0.01
Comment	PASS	--	--

Note : 1. mg/kg = milligram per kilogram of foodstuff in contact with

2. °C = degree Celsius

3. ND = Not Detected

4. Permissible Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.

Remark: Test condition & simulant were specified by client.

d) Polypropylene – Specific migration of Phthalates

Method: With reference to . Analysis was performed by GC-MS. Simulant Used:

95% ethanol

Test Condition: 40°C for 24 hours (3rd Migration)

Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
	1		
Dibutyl phthalate (DBP)	ND	0.05	0.3
Benzylbutyl phthalate (BBP)	ND	0.05	30
Bis-(2-ethylhexyl) phthalate (DEHP)	ND	0.05	1.5
Diisononyl phthalate + Diisodecyl phthalate (DINP + DIDP)	ND	0.20	9
Diallyl phthalate (DAP)	ND	0.01	0.01
Comment	PASS	--	--

Note: 1. mg/kg = milligram per kilogram of foodstuff in contact with

2. °C = degree Celsius

3. ND = Not Detected

4. Permissible Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.

Remark: Test condition & simulant were specified by client.

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2. French Décret 2007-766 with amendments and French Law 2012-1442 of 24 Dec 2012

Polypropylene – Total Content of Bisphenol A

Method: With reference to Part II Section D2 of Testing Methods for Foodstuffs, Implements, Containers and Packaging, Toys, Detergents, JETRO, Japan External Trade Organization, 2009 (Dichloromethane extraction by ultrasonic bath). Analysis was performed by HPLC-MS

Test items	Result (mg/kg)	Detection Limit (mg/kg)	Recommended Limit (mg/kg)
	1		
Bisphenol A content	ND	0.1	0.1
Comment	PASS	--	--

Note : 1. mg/kg = milligram per kilogram
 2. ND = Not Detected
 3. Recommended limit is with reference to French Law 2012-1442 of 24 Dec 2012 amending French Law 2010-729.

3. German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with Amendments

Colour Release

Method: With reference to Kunststoffe im Lebensmittelverkehr, Part B II IX.

Simulant Used	Result	Requirement
	1	
3% Acetic Acid (W/V) Aqueous Solution	No color release observed	No colour release
Iso- octane	No color release observed	No colour release
95% Ethanol (V/V) Aqueous Solution	No color release observed	No colour release
Comment	PASS	--

Note : 1. Permissible Limit is according to BfR Recommendation IX.

Remark: Test condition & simulant were specified by client.
 The above test(s) was / were performed by SGS VN's Chemical lab.

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4. European Regulation (EC) No. 1907/2006 (REACH) Annex XVII and its amendments

Polycyclic Aromatic Hydrocarbons (PAHs) content

Method: With reference to AfPS PAK. Analysis was conducted by GC-MS

Test Item	CAS Number	Result (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
		1		
1. Benz[a]anthracene	56-55-3	ND	0.1	1
2. Chrysene	218-01-9	ND	0.1	1
3. Benzo[b]fluoranthene	205-99-2	ND	0.1	1
4. Benzo[k]fluoranthene	207-08-9	ND	0.1	1
5. Benzo[j]fluoranthene	205-82-3	ND	0.1	1
6. Benzo[a]pyrene	50-32-8	ND	0.1	1
7. Benzo[e]pyrene	192-97-2	ND	0.1	1
8. Dibenz[a,h]anthracene	53-70-3	ND	0.1	1
Comment	--	PASS	--	--

Note : 1. mg/kg = milligram per kilogram

2. ND = Not Detected

3. Conclusion is based on the limit specified by Commission Regulation (EU) No 1272/2013 amending Annex XVII to Regulation (EC) No 1907/2006 effective after 27 December 2015.

Remark: This / these test(s) was / were performed by SGS Vietnam's Chemical lab.
This / these test(s) was / were accredited ISO 17025:2005 by VILAS

5. European Directive 94/62/EC – Total Lead, Cadmium, Mercury and Hexavalent Chromium content

Method: Sample digestion. Analysis of Lead, Cadmium and Mercury were performed by ICP-OES. Analysis of Chromium VI was performed by UV-Vis

Test Item	Result (mg/kg)	Detection Limit (mg/kg)	Permissible Limit (mg/kg)
	1		
Lead (Pb)	3	2	--
Cadmium (Cd)	ND	2	--
Mercury (Hg)	ND	2	--
Hexavalent Chromium (Cr(VI))	ND	8	--
Total	3	--	100
Comment	PASS	--	--

Note : 1. mg/kg = milligram per kilogram

2. ND = Not Detected

Remark: This / these test(s) was / were accredited ISO 17025:2005 by VILAS.
This / these test(s) was / were performed by SGS Vietnam's chemical lab.

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PHOTO OF SUBMITTED SAMPLE FOR TESTING



REPORT RESULTS REFER TO SUBMITTED SAMPLE (S) ONLY
*** End of Report ***

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