Test Report

No.: SHAHL26014596903 **Date:** Jun 11, 2026

Client Name: NINGBO JINXIANG PAPER CO.,LTD.

Client Address: NO.1-2, 1ST FLOOR, UNIT 1, BUILDING 2,NO.128 HONGYUAN ROAD, BEILUN DISTRICT,NINGBO CITY, ZHEJIANG PROVINCE, CHINA

Sample Description: PAPER CUP

Style No.: 8OZ

Manufacturer: NINGBO JINXIANG PAPER CO.,LTD.

Client Ref. Information: THE SCOPE OF ACTIVITIES INVOLVED COVERS：
FOOD-GRADE COATED PAPER LAMINATED WITH PE (POLYETHYLENE), PBS (POLYBUTYLENE SUCCINATE) OR PLA (POLYLACTIC ACID)；
WATER-BASED COATING (MODIFIED POLYACRYLATE)

Destination of the Product(s): USA、UK、GERMANY、EU

The above sample(s) and information were provided by the client.

SGS No.: NBHL2605014218CW

Sample Receiving Date: May 22, 2026

Testing Period: May 22, 2026 ~ Jun 11, 2026

Test Requested: Select test(s) as requested by the client.

Testing Performed: Follow selected test(s) as requested by client.

	Test Requirement	Comment
1	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Overall Migration	Pass
2	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of heavy metals	Pass
3	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of primary aromatic amine (individual)	Pass

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Danna Ji

Danna Ji
Approved Signatory

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	Test Requirement	Comment
4	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, European Directorate for the Quality of Medicines & Healthcare (EDQM) - Paper and board used in food contact materials and articles (2021) - Sensorial examination odour and taste tests	Pass
5	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, European Directorate for the Quality of Medicines & Healthcare (EDQM) - Paper and board used in food contact materials and articles (2021) - Overall migration	Pass
6	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, European Directorate for the Quality of Medicines & Healthcare (EDQM) - Paper and board used in food contact materials and articles (2021) - Transfer of antimicrobial agents	Pass
7	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, European Directorate for the Quality of Medicines & Healthcare (EDQM) - Paper and board used in food contact materials and articles (2021) - Fastness of fluorescent whitened paper and board	Pass
8	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, European Directorate for the Quality of Medicines & Healthcare (EDQM) - Paper and board used in food contact materials and articles (2021) - Specific Migration of Phthalates	Pass
9	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, European Directorate for the Quality of Medicines & Healthcare (EDQM) - Paper and board used in food contact materials and articles (2021) - Specific migration of benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene and chrysene	Pass
10	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, European Directorate for the Quality of Medicines & Healthcare (EDQM) - Paper and board used in food contact materials and articles (2021) - Specific migration of bisphenol A(BPA)	Pass
11	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, European Directorate for the Quality of Medicines & Healthcare (EDQM) - Paper and board used in food contact materials and articles (2021) - Specific migration of Lead	Pass
12	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, European Directorate for the Quality of Medicines & Healthcare (EDQM) - Paper and board used in food contact materials and articles (2021) - Specific migration of benzophenone,2-methylbenzophenone,3-methylbenzophenone and 4-methylbenzophenone	Pass
13	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, European Directorate for the Quality of Medicines & Healthcare (EDQM) - Paper and board used in food contact materials and articles (2021) - 4,4'-Bis(dimethyl-amino) benzophenone (Michler's Ketone)	Pass

Test Result(s):

Test Part Description：

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SN ID	Sample No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	A1	SHA26-0145969-0001.C001	White paper cup with transparent plastic film	PAPER+PE FILM

Remarks:

(1) mg/dm^2 = milligram per square decimeter
$mg/inch^2$ = milligram per square inches
$\mu g/cm^2$ = microgram per square centimeter
mg/L = milligram per litre
mg/kg = milligram per kilogram
(2) ℃ = degree Celsius
℉ = degree Fahrenheit
(3) < = less than
(4) RL = Reporting Limit
(5) ND = Not Detected (< RL).

The ratio of surface area to volume

Sample No.	Overall Migration	Specific Migration
A1	7.8 dm^2/kg	7.8 dm^2/kg

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Overall Migration

Test Method: With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods; EN 1186-3:2022 Test methods for overall migration in evaporable simulants

	Test Condition	
	20% Ethanol(V/V)	3% Acetic acid (W/V)
A1	70 ºC, 2 hrs	70 ºC, 2 hrs

Simulant used	Limit	Unit(s)	RL	A1 (1st)	Comment
20% Ethanol(V/V)	10	mg/dm^2	3.0	ND	Pass
3% Acetic acid (W/V)	10	mg/dm^2	3.0	ND	Pass

Notes:

(1) Test condition & simulant were specified by client.
(2) For single use articles, the compliance is based on the first migration result with measurement uncertainty according to (EU) 2025/351.
(3) For repeated use articles, the compliance is based on the stability trend and the third migration result with measurement uncertainty according to (EU) 2025/351.

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of heavy metals

Test Method: With reference to EN 13130-1:2004, analysis was performed by ICP-OES/ICP-MS.

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Simulant	Test Condition
	A1
3% Acetic acid (W/V)	70 ºC, 2 hrs

Test Item(s)	Limit	Unit(s)	RL	A1
3% Acetic acid (W/V)				
Migration times				First
Arsenic(As)	ND	mg/kg	0.01	ND
Cadmium(Cd)	ND	mg/kg	0.002	ND
Chromium(Cr)	ND	mg/kg	0.01	ND
Mercury(Hg)	ND	mg/kg	0.01	ND
Lead(Pb)	ND	mg/kg	0.01	ND
Aluminium(Al)	1	mg/kg	0.2	ND
Barium(Ba)	1	mg/kg	0.2	ND
Cobalt(Co)	0.05	mg/kg	0.01	ND
Copper(Cu)	5	mg/kg	1.0	ND
Iron(Fe)	48	mg/kg	9.6	ND
Lithium(Li)	0.6	mg/kg	0.12	ND
Manganese(Mn)	0.6	mg/kg	0.12	ND
Zinc(Zn)	5	mg/kg	1.0	ND
Nickel (Ni)	0.02	mg/kg	0.01	ND
Antimony(Sb)	0.04	mg/kg	0.01	ND
Europium(Eu)	-	mg/kg	0.01	ND
Gadolinium(Gd)	-	mg/kg	0.01	ND
Lanthanum(La)	-	mg/kg	0.01	ND
Terbium(Tb)	-	mg/kg	0.01	ND
Europium (Eu)+ Gadolinium(Gd)+ Lanthanum(La)+ Terbium(Tb)	0.05	mg/kg	-	ND
Comment				**Pass**

Notes:
(1) Test condition & simulant were specified by client.
(2) For single use articles, the compliance is based on the first migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is “Not Detected”, the non-compliance is based on the first migration result if it is detected without the inclusion of measurement uncertainty.
(3) For repeated use articles, the compliance is based on the stability trend and the third migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is “Not Detected”, the non-compliance is based on the three migration test results if it is detected without the inclusion of measurement uncertainty.

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of primary aromatic amine (individual)

Test Method: With reference to EN 13130-1:2004, analysis was performed by LC-MS/MS.

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Simulant	Test Condition
	A1
3% Acetic acid (W/V)	70 ºC, 2 hrs

Test Item(s)	CAS No.	Limit	Unit(s)	RL	A1
3% Acetic acid (W/V)					
Migration times					First
2,4,5-Trimethylaniline	137-17-7	ND	mg/kg	0.002	ND
2,4-Toluenediamine (2,4-TDA)	95-80-7	ND	mg/kg	0.002	ND
2-Methoxy-5-methylaniline	120-71-8	ND	mg/kg	0.002	ND
3,3'-Dimethylbenzidine	119-93-7	ND	mg/kg	0.002	ND
4,4′-Diaminodiphenyl ether	101-80-4	ND	mg/kg	0.002	ND
4,4'-Methylenedianiline	101-77-9	ND	mg/kg	0.002	ND
4,4'-Methylenedi-o-toluidine	838-88-0	ND	mg/kg	0.002	ND
4-Aminobiphenyl	92-67-1	ND	mg/kg	0.002	ND
4-Chloroaniline	106-47-8	ND	mg/kg	0.002	ND
4-Chloro-o-toluidine	95-69-2	ND	mg/kg	0.002	ND
4-Methoxy-m-phenylenediamine	615-05-4	ND	mg/kg	0.002	ND
Benzidine	92-87-5	ND	mg/kg	0.002	ND
o-Anisidine	90-04-0	ND	mg/kg	0.002	ND
o-Toluidine	95-53-4	ND	mg/kg	0.002	ND
2-Naphthylamine	91-59-8	ND	mg/kg	0.002	ND
o-Aminoazotoluene	97-56-3	ND	mg/kg	0.002	ND
3,3'-Dichlorobenzidine	91-94-1	ND	mg/kg	0.002	ND
3,3'-Dimethoxybenzidine	119-90-4	ND	mg/kg	0.002	ND
4,4'-Methylene-bis-(2-chloro-aniline)	101-14-4	ND	mg/kg	0.002	ND
4,4'-Thiodianiline	139-65-1	ND	mg/kg	0.002	ND
4-Amino azobenzene	60-09-3	ND	mg/kg	0.002	ND
1,3-Phenylenediamine	108-45-2	ND	mg/kg	0.002	ND
2-Amino-4-nitrotoluene	99-55-8	ND	mg/kg	0.002	ND
Primary aromatic amine (other)	-	0.01	mg/kg	-	ND
1,3-Diiminoisoindoline	3468-11-9	-	mg/kg	0.010	ND
3-Anisidine	536-90-3	-	mg/kg	0.002	ND
2-Amino-1-naphthalenesulfonic acid	81-16-3	-	mg/kg	0.005	ND
2-Ethoxyaniline	94-70-2	-	mg/kg	0.005	ND
5-Chloro-2-methoxylaniline	95-03-4	-	mg/kg	0.005	ND
2-Chloraniline	95-51-2	-	mg/kg	0.010	ND
4-Toluidine	106-49-0	-	mg/kg	0.002	ND
1,4-Phenylenediamine	106-50-3	-	mg/kg	0.002	ND
3-Chloroaniline	108-42-9	-	mg/kg	0.010	ND
3-Toluidine	108-44-1	-	mg/kg	0.002	ND
3-Amino-4-methoxybenzanilide	120-35-4	-	mg/kg	0.002	ND
2-Chloro-4-nitroaniline	121-87-9	-	mg/kg	0.005	ND
4-Chlor-3-methoxyaniline	13726-14-2	-	mg/kg	0.005	ND
4-Ethoxyaniline	156-43-4	-	mg/kg	0.002	ND
3-Amino-4-methylbenzamide	19406-86-1	-	mg/kg	0.002	ND
1,5-Diaminonaphthalene	2243-62-1	-	mg/kg	0.002	ND
4-Aminobenzamide	2835-68-9	-	mg/kg	0.005	ND

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Test Item(s)	CAS No.	Limit	Unit(s)	RL	A1
Aniline	62-53-3	-	mg/kg	0.002	ND
4-Chlor-2,5-dimethoxyaniline	6358-64-1	-	mg/kg	0.005	ND
2,4,5-Trichloroaniline	636-30-6	-	mg/kg	0.010	ND
5-Amino-6-methylbenzimidazolone	67014-36-2	-	mg/kg	0.005	ND
2,6-Diaminotoluene	823-40-5	-	mg/kg	0.002	ND
2,6-Dimethylaniline (2,6-DMA)	87-62-7	-	mg/kg	0.002	ND
4-Aminotoluene-3-sulfonic acid	88-44-8	-	mg/kg	0.005	ND
1,2-Phenylendiamine	95-54-5	-	mg/kg	0.002	ND
2,4-Dimethylaniline (2,4-DMA)	95-68-1	-	mg/kg	0.002	ND
5-Chloro-2-methylaniline	95-79-4	-	mg/kg	0.005	ND
2,5-Dichloroaniline	95-82-9	-	mg/kg	0.010	ND
2,4-Dinitroaniline	97-02-9	-	mg/kg	0.005	ND
2-Methoxy-4-nitroaniline	97-52-9	-	mg/kg	0.005	ND
p-Anisidine	104-94-9	-	mg/kg	0.002	ND
Dimethyl aminoterephthalate	5372-81-6	-	mg/kg	0.002	ND
3,4-Dichloroaniline	95-76-1	-	mg/kg	0.002	ND
1-Naphthylamine	134-32-7	-	mg/kg	0.002	ND
2-Aminobiphenyl	90-41-5	-	mg/kg	0.002	ND
Butyl anthranilate	7756-96-9	-	mg/kg	0.002	ND
2,4'-Diaminodiphenylmethane	1208-52-2	-	mg/kg	0.002	ND
2-Amino-5-methylbenzoic acid	2941-78-8	-	mg/kg	0.002	ND
Comment					**Pass**

Notes:
(1) Test condition & simulant were specified by client.
(2) For single use articles, the compliance is based on the first migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is “Not Detected”, the non-compliance is based on the first migration result if it is detected without the inclusion of measurement uncertainty.
(3) For repeated use articles, the compliance is based on the stability trend and the third migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is “Not Detected”, the non-compliance is based on the three migration test results if it is detected without the inclusion of measurement uncertainty.

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, European Directorate for the Quality of Medicines & Healthcare (EDQM) - Paper and board used in food contact materials and articles (2021) - Sensorial examination odour and taste tests

Test Method: With reference to DIN 10955: 2024.
No. of panelist: 6

Test Media	Test Condition
	A1
Distilled water	70 ºC, 2 hrs

Test Item(s)	Limit	Unit(s)	A1
Area/Volume	-	dm²/kg	7.8
Sensorial examination odour	2.5	-	0

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Test Item(s)	Limit	Unit(s)	A1
Sensorial examination taste	2.5	-	0
Comment			**Pass**

Notes:
Intensity scale (rounded at 0.5):
0 – no perceptible difference
1 – just perceptible difference
2 – slight difference
3 – marked difference
4 – strong difference

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, European Directorate for the Quality of Medicines & Healthcare (EDQM) - Paper and board used in food contact materials and articles (2021) - Overall migration

Test Method: With reference to EN 1186-1:2002 for selection of conditions and test method;
EN 1186-13: 2002 Method B -adsorption by modified polyphenylene oxide.

	Test Condition
	Poly(2,6-diphenyl-p-phenylene oxide)(MPPO)
A1	70 ºC, 2 hrs

Simulant used	Limit	Unit(s)	RL	A1 (1st)	Comment
Poly(2,6-diphenyl-p-phenylene oxide)(MPPO)	10	mg/dm²	3.0	ND	Pass

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

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, European Directorate for the Quality of Medicines & Healthcare (EDQM) - Paper and board used in food contact materials and articles (2021) - Transfer of antimicrobial agents

Test Method: With reference to EN 1104:2018.

Test Item(s)	Limit	A1
Aspergillus niger ATCC 6275	★	Absent
Bacillus subtilis ATCC 6633	★	Absent
Comment		**Pass**

Notes:
(1) ★ = Absence of zone inhibition
(2) Absent denotes absence of Antimicrobic constituents which inhibits the growth of tested bacteria and fungus

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Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, European Directorate for the Quality of Medicines & Healthcare (EDQM) - Paper and board used in food contact materials and articles (2021) - Fastness of fluorescent whitened paper and board

Test Method: With reference to EN 648:2018.

Simulant used	Test Condition	Limit	A1	Comment
3% Acetic acid (W/V)	(23 ± 2)ºC, 4 hrs	Grade 5	Grade 5	Pass
Alkaline salt solution	(23 ± 2)ºC, 4 hrs	Grade 5	Grade 5	Pass
Deionized water	(90 ± 3) ºC, 0.5 hr	Grade 5	Grade 5	Pass

Notes:
(1)Grey scale rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, European Directorate for the Quality of Medicines & Healthcare (EDQM) - Paper and board used in food contact materials and articles (2021) - Specific Migration of Phthalates

Test Method: With reference to EN 15519:2007, analysis was performed by GC-MS.
95% Ethanol, 60 ℃, 2 hours

Test Item(s)	CAS No.	Limit	Unit(s)	RL	A1
Bis-(2-ethylhexyl) Phthalate(DEHP)	117-81-7	1.5	mg/kg	0.05	ND
Dibutyl phthalate(DBP)+ Diisobutyl Phthalates (DIBP)	-	0.3	mg/kg	-	ND
Dibutyl phthalate(DBP)	84-74-2	-	mg/kg	0.05	ND
Diisobutyl Phthalates (DIBP)	84-69-5	-	mg/kg	0.05	ND
Comment					**Pass**

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, European Directorate for the Quality of Medicines & Healthcare (EDQM) - Paper and board used in food contact materials and articles (2021) - Specific migration of benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene and chrysene

Test Method: With reference to EN 15519:2007, analysis was performed by GC-MS.
95% Ethanol, 60 ℃, 2 hours

Test Item(s)	CAS No.	Limit	Unit(s)	RL	A1
Benzo(a)pyrene(BaP)	50-32-8	-	mg/kg	0.001	ND
Benzo(a)anthracene(BaA)	56-55-3	-	mg/kg	0.001	ND
Benzo(b)Fluoranthene(BbF)	205-99-2	-	mg/kg	0.001	ND
Chrysene(CHR)	218-01-9	-	mg/kg	0.001	ND
Sum of Above	-	ND	mg/kg	-	ND
Comment					**Pass**

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, European Directorate for the Quality of Medicines & Healthcare (EDQM) - Paper and board used in food contact materials and articles (2021) - Specific migration of bisphenol A(BPA)

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Test Method: With reference to EN 15519:2007, analysis was performed by LC-MS and LC-MS/MS.
95% Ethanol, 60 ℃, 2 hours

Test Item(s)	Limit	Unit(s)	RL	A1
Specific migration of bisphenol A	0.05	mg/kg	0.01	ND
Comment				**Pass**

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, European Directorate for the Quality of Medicines & Healthcare (EDQM) - Paper and board used in food contact materials and articles (2021) - Specific migration of Lead

Test Method: With reference to EN 13130-1:2004, analysis was performed by ICP-OES/ICP-MS.

Simulant	Test Condition
	A1
3% Acetic acid (W/V)	70 ºC, 2 hrs

Test Item(s)	Limit	Unit(s)	RL	A1
3% Acetic acid (W/V)				
Migration times				First
Lead(Pb)	ND	mg/kg	0.01	ND
Comment				**Pass**

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

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, European Directorate for the Quality of Medicines & Healthcare (EDQM) - Paper and board used in food contact materials and articles (2021) - Specific migration of benzophenone,2-methylbenzophenone,3-methylbenzophenone and 4-methylbenzophenone

Test Method: With reference to EN 15519:2007, analysis was performed by GC-MS.
95% Ethanol, 60 ℃, 2 hours

Test Item(s)	CAS No.	Limit	Unit(s)	RL	A1
2-Methylbenzophenone	131-58-8	-	mg/kg	0.01	ND
3-Methylbenzophenone	643-65-2	-	mg/kg	0.01	ND
4-Methylbenzophenone	134-84-9	-	mg/kg	0.01	ND
Sum of 3 items above	-	0.05	mg/kg	-	ND
Benzophenone	119-61-9	-	mg/kg	0.01	ND
Sum of 4 items above	-	0.6	mg/kg	-	ND
Comment					**Pass**

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, European Directorate for the Quality of Medicines & Healthcare (EDQM) - Paper and board used in food contact materials and articles (2021) - 4,4'-Bis(dimethyl-amino) benzophenone (Michler's Ketone)

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Test Method: With reference to EN 15519:2007, analysis was performed by GC-MS.
95% Ethanol, 60 ℃, 2 hours

Test Item(s)	CAS No.	Limit	Unit(s)	RL	A1
4,4'-Bis(dimethyl-amino) benzophenone (Michler's Ketone)	90-94-8	ND	mg/kg	0.01	ND
Comment					**Pass**

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (*w*=0) stated in ILAC-G8:09/2019.

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