Test Report

No.: NGBEC26003818603 **Date:** Jul 03, 2026

Client Name: SHENZHEN ESUN INDUSTRIAL CO.,LTD

Client Address: 15A, MICROSOFT KETONG BUILDING, NO. 55 GAOXINNAN 9TH ROAD, HIGH TECH COMMUNITY, YUEHAI STREET, NANSHAN DISTRICT, SHENZHEN

Sample Name: PETG-Basic

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

SGS Job No.: CQP26-005821

Sample Receiving Date: May 13, 2026

Testing Period: May 13, 2026 ~ Jun 18, 2026

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

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).

	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
4	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 ethylene glycol and diethylene glycol (expressed as ethylene glycol)	Pass
5	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 terephthalic acid	Pass
6	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Commission Regulation (EU) 2024/3190 - Hazardous bisphenols and bisphenol derivatives	Pass

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

Pinky Wu

Pinky Wu
Approved Signatory

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	Test Requirement	Comment
7	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 - Sensorial examination odour and taste test	Pass

Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	A2	NGB26-0038186-0001.C002	Black plastic	PETG

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
A2	10.0 dm^2/kg	6.0 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)	95% Ethanol	Isooctane
A2	40 ºC, 10 days	40 ºC, 10 days	20 ºC, 2 days

Simulant used	Limit	Unit(s)	RL	A2 (1st)	A2 (2nd)	A2 (3rd)	Stability	Comment
20% Ethanol(V/V)	10	mg/dm²	3.0	ND	ND	ND	Compliant	Pass
95% Ethanol	10	mg/dm²	3.0	ND	ND	ND	Compliant	Pass
Isooctane	10	mg/dm²	3.0	ND	ND	ND	Compliant	Pass

Notes:

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(1) Test condition & simulant were specified by client.
(2) 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-MS.

Simulant	Test Condition
	A2
3% Acetic acid (W/V)	40 ºC, 10 days

Test Item(s)	Limit	Unit(s)	RL	A2		
3% Acetic acid (W/V)						
Migration times				First	Second	Third
Arsenic(As)	ND	mg/kg	0.01	ND	ND	ND
Cadmium(Cd)	ND	mg/kg	0.002	ND	ND	ND
Chromium(Cr)	ND	mg/kg	0.01	ND	ND	ND
Mercury(Hg)	ND	mg/kg	0.01	ND	ND	ND
Lead(Pb)	ND	mg/kg	0.01	ND	ND	ND
Aluminium(Al)	1	mg/kg	0.2	ND	ND	ND
Barium(Ba)	1	mg/kg	0.2	ND	ND	ND
Cobalt(Co)	0.05	mg/kg	0.01	ND	ND	ND
Copper(Cu)	5	mg/kg	1.0	ND	ND	ND
Iron(Fe)	48	mg/kg	9.6	ND	ND	ND
Lithium(Li)	0.6	mg/kg	0.12	ND	ND	ND
Manganese(Mn)	0.6	mg/kg	0.12	ND	ND	ND
Zinc(Zn)	5	mg/kg	1.0	ND	ND	ND
Nickel(Ni)	0.02	mg/kg	0.01	ND	ND	ND
Antimony(Sb)	0.04	mg/kg	0.01	ND	ND	ND
Europium(Eu)	-	mg/kg	0.01	ND	ND	ND
Gadolinium(Gd)	-	mg/kg	0.01	ND	ND	ND
Lanthanum(La)	-	mg/kg	0.01	ND	ND	ND
Terbium(Tb)	-	mg/kg	0.01	ND	ND	ND
Europium(Eu)+ Gadolinium(Gd)+ Lanthanum(La)+ Terbium(Tb)	0.05	mg/kg	-	ND	ND	ND
Stability	-	-	-	Compliant		
Comment				**Pass**		

Notes:
(1) Test condition & simulant were specified by client.
(2) 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.

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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.

Simulant	Test Condition
	A2
3% Acetic acid (W/V)	40 ºC, 10 days

Test Item(s)	CAS No.	Limit	Unit(s)	RL	A2		
3% Acetic acid (W/V)							
Migration times					First	Second	Third
2,4,5-Trimethylaniline	137-17-7	ND	mg/kg	0.002	ND	ND	ND
2,4-Toluenediamine(2,4-TDA)	95-80-7	ND	mg/kg	0.002	ND	ND	ND
2-Methoxy-5-methylaniline	120-71-8	ND	mg/kg	0.002	ND	ND	ND
3,3'-Dimethylbenzidine	119-93-7	ND	mg/kg	0.002	ND	ND	ND
4,4′-Diaminodiphenyl ether	101-80-4	ND	mg/kg	0.002	ND	ND	ND
4,4'-Methylenedianiline	101-77-9	ND	mg/kg	0.002	ND	ND	ND
4,4'-Methylenedi-o-toluidine	838-88-0	ND	mg/kg	0.002	ND	ND	ND
4-Aminobiphenyl	92-67-1	ND	mg/kg	0.002	ND	ND	ND
4-Chloroaniline	106-47-8	ND	mg/kg	0.002	ND	ND	ND
4-Chloro-o-toluidine	95-69-2	ND	mg/kg	0.002	ND	ND	ND
4-Methoxy-m-phenylenediamine	615-05-4	ND	mg/kg	0.002	ND	ND	ND
Benzidine	92-87-5	ND	mg/kg	0.002	ND	ND	ND
o-Anisidine	90-04-0	ND	mg/kg	0.002	ND	ND	ND
o-Toluidine	95-53-4	ND	mg/kg	0.002	ND	ND	ND
2-Naphthylamine	91-59-8	ND	mg/kg	0.002	ND	ND	ND
o-Aminoazotoluene	97-56-3	ND	mg/kg	0.002	ND	ND	ND
3,3'-Dichlorobenzidine	91-94-1	ND	mg/kg	0.002	ND	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	ND	mg/kg	0.002	ND	ND	ND

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Test Item(s)	CAS No.	Limit	Unit(s)	RL	A2		
4,4'-Methylene-bis-(2-chloro-aniline)	101-14-4	ND	mg/kg	0.002	ND	ND	ND
4,4'-Thiodianiline	139-65-1	ND	mg/kg	0.002	ND	ND	ND
4-Amino azobenzene	60-09-3	ND	mg/kg	0.002	ND	ND	ND
1,3-Phenylenediamine	108-45-2	ND	mg/kg	0.002	ND	ND	ND
2-Amino-4-nitrotoluene	99-55-8	ND	mg/kg	0.002	ND	ND	ND
Primary aromatic amine(other)	-	0.01	mg/kg	-	ND	ND	ND
1,3-Diiminoisoindoline	3468-11-9	-	mg/kg	0.010	ND	ND	ND
3-Anisidine	536-90-3	-	mg/kg	0.002	ND	ND	ND
2-Amino-1-naphthalenesulfonic acid	81-16-3	-	mg/kg	0.005	ND	ND	ND
2-Ethoxyaniline	94-70-2	-	mg/kg	0.005	ND	ND	ND
5-Chloro-2-methoxylaniline	95-03-4	-	mg/kg	0.005	ND	ND	ND
2-Chloraniline	95-51-2	-	mg/kg	0.010	ND	ND	ND
4-Toluidine	106-49-0	-	mg/kg	0.002	ND	ND	ND
1,4-Phenylenediamine	106-50-3	-	mg/kg	0.002	ND	ND	ND
3-Chloroaniline	108-42-9	-	mg/kg	0.010	ND	ND	ND
3-Toluidine	108-44-1	-	mg/kg	0.002	ND	ND	ND
3-Amino-4-methoxybenzanilide	120-35-4	-	mg/kg	0.002	ND	ND	ND
2-Chloro-4-nitroaniline	121-87-9	-	mg/kg	0.005	ND	ND	ND
4-Chlor-3-methoxyaniline	13726-14-2	-	mg/kg	0.005	ND	ND	ND
4-Ethoxyaniline	156-43-4	-	mg/kg	0.002	ND	ND	ND
3-Amino-4-methylbenzamide	19406-86-1	-	mg/kg	0.002	ND	ND	ND
1,5-Diaminonaphthalene	2243-62-1	-	mg/kg	0.002	ND	ND	ND
4-Aminobenzamide	2835-68-9	-	mg/kg	0.005	ND	ND	ND
Aniline	62-53-3	-	mg/kg	0.002	ND	ND	ND
4-Chlor-2,5-dimethoxyaniline	6358-64-1	-	mg/kg	0.005	ND	ND	ND
2,4,5-Trichloroaniline	636-30-6	-	mg/kg	0.010	ND	ND	ND

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Test Item(s)	CAS No.	Limit	Unit(s)	RL	A2		
5-Amino-6-methylbenzimidazolone	67014-36-2	-	mg/kg	0.005	ND	ND	ND
2,6-Diaminotoluene	823-40-5	-	mg/kg	0.002	ND	ND	ND
2,6-Dimethylaniline(2,6-DMA)	87-62-7	-	mg/kg	0.002	ND	ND	ND
4-Aminotoluene-3-sulfonic acid	88-44-8	-	mg/kg	0.005	ND	ND	ND
1,2-Phenylendiamine	95-54-5	-	mg/kg	0.002	ND	ND	ND
2,4-Dimethylaniline(2,4-DMA)	95-68-1	-	mg/kg	0.002	ND	ND	ND
5-Chloro-2-methylaniline	95-79-4	-	mg/kg	0.005	ND	ND	ND
2,5-Dichloroaniline	95-82-9	-	mg/kg	0.010	ND	ND	ND
2,4-Dinitroaniline	97-02-9	-	mg/kg	0.005	ND	ND	ND
2-Methoxy-4-nitroaniline	97-52-9	-	mg/kg	0.005	ND	ND	ND
p-Anisidine	104-94-9	-	mg/kg	0.002	ND	ND	ND
Dimethyl aminoterephthalate	5372-81-6	-	mg/kg	0.002	ND	ND	ND
3,4-Dichloroaniline	95-76-1	-	mg/kg	0.002	ND	ND	ND
1-Naphthylamine	134-32-7	-	mg/kg	0.002	ND	ND	ND
2-Aminobiphenyl	90-41-5	-	mg/kg	0.002	ND	ND	ND
Butyl anthranilate	7756-96-9	-	mg/kg	0.002	ND	ND	ND
2,4'-Diaminodiphenyl methane	1208-52-2	-	mg/kg	0.002	ND	ND	ND
2-Amino-5-methylbenzoic acid	2941-78-8	-	mg/kg	0.002	ND	ND	ND
Stability	-	-	-	-	Compliant		
Comment					**Pass**		

Notes:
(1) Test condition & simulant were specified by client.
(2) 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.

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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 ethylene glycol and diethylene glycol (expressed as ethylene glycol)

Test Method: With reference to EN 13130-1: 2004 and BS EN 13130-7:2004, analysis was performed by GC-FID.

Simulant	Test Condition
	A2
3% Acetic acid (W/V)	40 ºC, 10 days

Test Item(s)	Limit	Unit(s)	RL	A2		
3% Acetic acid (W/V)						
Migration times				First	Second	Third
Specific migration of ethylene glycol	-	mg/kg	3	ND	ND	ND
Specific migration of diethylene glycol	-	mg/kg	3	ND	ND	ND
Sum of ethylene glycol and diethylene glycol (expressed as ethylene glycol)	30	mg/kg	-	ND	ND	ND
Stability	-	-	-	Compliant		
Comment				**Pass**		

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

Test Method: With reference to EN 13130-1:2004 and EN 13130-2:2004, analysis was performed by LC-DAD.

Simulant	Test Condition
	A2
3% Acetic acid (W/V)	40 ºC, 10 days

Test Item(s)	Limit	Unit(s)	RL	A2		
3% Acetic acid (W/V)						
Migration times				First	Second	Third
Specific migration of terephthalic acid	7.5	mg/kg	1.5	ND	ND	ND
Stability	-	-	-	Compliant		

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Test Item(s)	Limit	Unit(s)	RL	A2
Comment				**Pass**

Notes:
(1) Test condition & simulant were specified by client.
(2) 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, Commission Regulation (EU) 2024/3190 - Hazardous bisphenols and bisphenol derivatives

Test Method: With reference to SGS in house method, analysis was performed by LC-MS/MS.

Test Item(s)	CAS No.	Limit	Unit(s)	RL	A2
Bisphenol A (BPA)	80-05-7	ND	µg/kg	1	ND
Bisphenol F (BPF)	620-92-8	ND	µg/kg	1	ND
Bisphenol S (BPS)	80-09-1	ND	µg/kg	1	ND
4,4'-Isobutylethylidenediphenol	6807-17-6	ND	µg/kg	1	ND
Phenolphthalein	77-09-8	ND	µg/kg	1	ND
Bisphenol AF (BPAF)	1478-61-1	ND	µg/kg	1	ND
Tetrabromobisphenol A (TBBPA)	79-94-7	ND	µg/kg	1	ND
Comment					**Pass**

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 - Sensorial examination odour and taste test

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

Test Media	Test Condition
	A2
Distilled water	40 ºC, 10 days

Test Item(s)	Limit	Unit(s)	A2
Area/Volume	-	dm²/kg	10.0
Sensorial examination odour	2.5	-	0.0
Sensorial examination taste	2.5	-	0.0
Comment			**Pass**

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

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3 – marked difference
4 – strong difference

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.

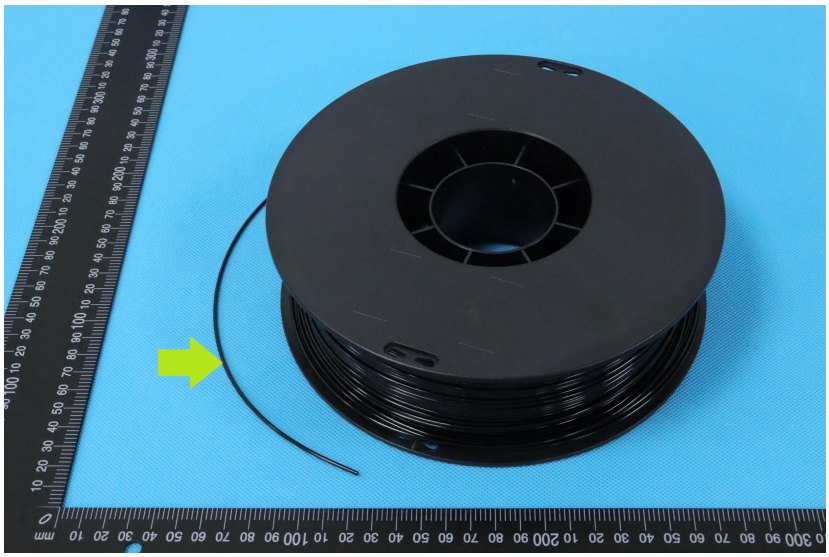
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Sample Photo:



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SGS authenticate the photo on original report only

*** End of Report ***

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