

## Test Report

No.: NGBEC26003818605

Date: Jul 03, 2026

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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: PLA-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, Commission Regulation (EU) 2024/3190 - Hazardous bisphenols and bisphenol derivatives                                  | Pass    |
| 5 | Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 - Sensorial examination odour and taste test                                                                            | Pass    |

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

Pinky Wu

Pinky Wu

Approved Signatory

Scan to see the report



09CFB339



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## Test Result(s):

### Test Part Description:

| SN ID | Sample No. | SGS Sample ID           | Description    | Material (claimed by the client) |
|-------|------------|-------------------------|----------------|----------------------------------|
| SN1   | A3         | NGB26-0038186-0001.C003 | Orange plastic | PLA                              |

### Remarks:

- (1) mg/dm<sup>2</sup> = milligram per square decimeter  
mg/inch<sup>2</sup> = milligram per square inches  
µg/cm<sup>2</sup> = microgram per square centimeter  
mg/L = milligram per litre  
mg/kg = milligram per kilogram
- (2) °C = degree Celsius  
°F = 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      |
|------------|--------------------------|-------------------------|
| A3         | 10.0 dm <sup>2</sup> /kg | 6.0 dm <sup>2</sup> /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     |
| A3 | 40 °C, 10 days   | 40 °C, 10 days | 20 °C, 2 days |

| Simulant used    | Limit | Unit(s)            | RL  | A3 (1 <sup>st</sup> ) | A3 (2 <sup>nd</sup> ) | A3 (3 <sup>rd</sup> ) | Stability | Comment |
|------------------|-------|--------------------|-----|-----------------------|-----------------------|-----------------------|-----------|---------|
| 20% Ethanol(V/V) | 10    | mg/dm <sup>2</sup> | 3.0 | ND                    | ND                    | ND                    | Compliant | Pass    |
| 95% Ethanol      | 10    | mg/dm <sup>2</sup> | 3.0 | 15.0                  | 11.5                  | 8.5                   | Compliant | Pass    |
| Isooctane        | 10    | mg/dm <sup>2</sup> | 3.0 | ND                    | ND                    | ND                    | Compliant | 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.



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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 heavy metals**

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

| Simulant             | Test Condition |
|----------------------|----------------|
|                      | A3             |
| 3% Acetic acid (W/V) | 40 °C, 10 days |

| Test Item(s)                                             | Limit | Unit(s) | RL    | A3        |        |       |
|----------------------------------------------------------|-------|---------|-------|-----------|--------|-------|
| 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.

**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 |
|----------------------|----------------|
|                      | A3             |
| 3% Acetic acid (W/V) | 40 °C, 10 days |

| Test Item(s)                         | CAS No.  | Limit | Unit(s) | RL    | A3    |        |       |
|--------------------------------------|----------|-------|---------|-------|-------|--------|-------|
| 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'-Methylenedio-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    |
| 4,4'-Methylenebis-(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    |



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| Test Item(s)                       | CAS No.    | Limit | Unit(s) | RL    | A3 |    |    |
|------------------------------------|------------|-------|---------|-------|----|----|----|
| 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-methoxyaniline          | 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 |
| 5-Amino-6-methylbenzimidazole      | 67014-36-2 | -     | mg/kg   | 0.005 | ND | ND | ND |
| 2,6-Diaminotoluene                 | 823-40-5   | -     | mg/kg   | 0.002 | ND | ND | ND |



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| Test Item(s)                   | CAS No.   | Limit | Unit(s) | RL    | A3        |    |    |
|--------------------------------|-----------|-------|---------|-------|-----------|----|----|
| 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.

## 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.



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| Test Item(s)                    | CAS No.   | Limit | Unit(s) | RL | A3   |
|---------------------------------|-----------|-------|---------|----|------|
| 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 |
|-----------------|----------------|
|                 | A3             |
| Distilled water | 40 °C, 10 days |

| Test Item(s)                | Limit | Unit(s)             | A3   |
|-----------------------------|-------|---------------------|------|
| Area/Volume                 | -     | dm <sup>3</sup> /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
- 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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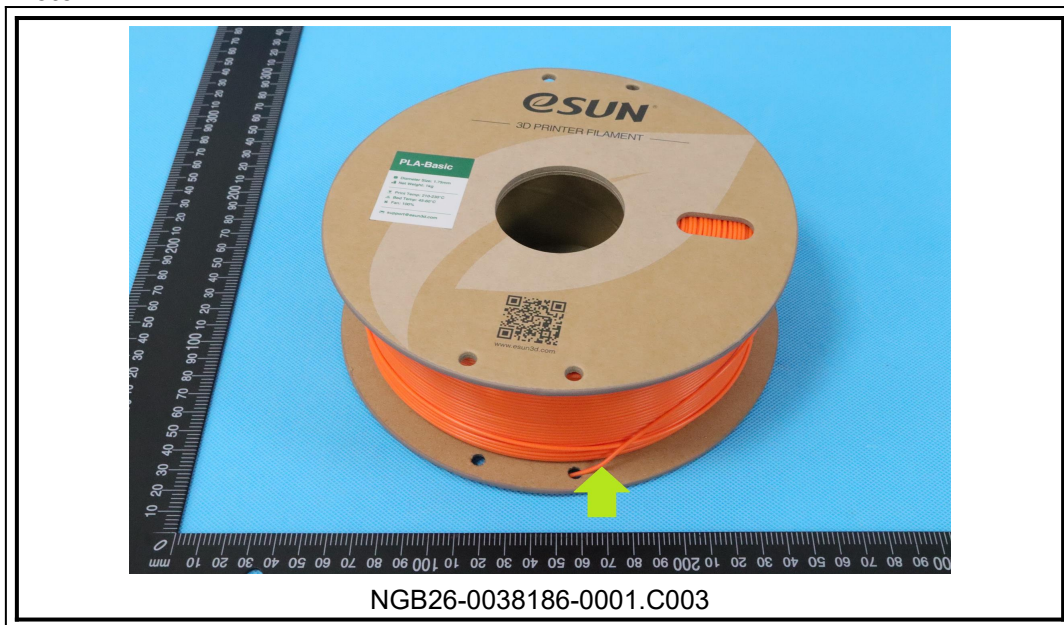
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Sample Photo:



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\*\*\* End of Report \*\*\*



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