



Test Report

Report No : TST26235100676CR

Date: July 01, 2026

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Applicant : Anhui Ruitu Communication Equipment Co., Ltd.
Address : East of Changning Road and North of Ronghua Road, Chahe Economic Development Zone,
Laian County, Chuzhou City, Anhui Province, China.
Manufacturer : Anhui Ruitu Communication Equipment Co., Ltd.
Address : East of Changning Road and North of Ronghua Road, Chahe Economic Development Zone,
Laian County, Chuzhou City, Anhui Province, China.

The following sample(s) was /were submitted and identified on behalf of the clients as :

Sample Name : HDPE Sealing Cap
Sample Received Date : June 29, 2026
Testing Period : June 29, 2026 To July 01, 2026
Test Requested : In accordance with Commission Regulation(EU)No.2017/752, (EU) 2024/3190,
No.2020/1245, (EU) No.10/2011 and EU Regulation(EC) No.1935/2004
on plastic materials and articles intended to come into contact with food.
Test Method : Please refer to next page(s).
Test Result : Please refer to next page(s).



Signed for and on behalf of



Scan QR code
verification of authenticity

Andy Zheng
Technical Director

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Sample Description:

No.	Material
1	HDPE

Test Result(s):

1.1. Sensorial examination odour and taste test

Test Method: Sensorial examination odour and taste test with reference to DIN 10955:2024-01;

Test condition: Odour test:70℃,2h;

Taste test: sunflower oil ,70℃,2h.

Test Item (s)	Result 1	Limit
Sensorial examination odour (Point scale)	0	2.5
Sensorial examination taste (Point scale)	0	2.5

Note:

Odour/Taste Grade

0= No perceptible difference

1= Just perceivable difference(still difficult to define)

2= Slight difference

3= Marked difference

4= Strong difference

5. This part of the test is holistic test

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1.2. Overall migration

Method: Refer to EN1186-1:2002,EN1186-3:2022

Material	Test Condition	Limit (mg/dm ²)	Result (mg/dm ²)			Conclusion
			1st	2nd	3rd	
1	3% acetic acid,70℃,2 hours	10	<3	<3	<3	PASS
2	10% Ethanol,70℃,2 hours	10	<3	<3	<3	PASS

Note:

- 1.mg/dm² = milligram per square decimetre of surface area of material or article.
- 2.mg/kg = milligrams of the constituents released per kilogram of foodstuff.
- 3.The requirement in accordance with the Commission Regulation (EU) No.2020/1245.
- 4.Surface area/volume ratio in dm²/mL:0.28dm²/28mL.

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1.3. Soluble heavy metal

Method: Refer to EN 13130-1:2004, was analyzed by ICP-MS.

Test Item(s)	Unit	Test conditions	Result 1 (Migration of)			RL	Limit
			1st	2nd	3rd		
Aluminum(Al)	mg/kg	70°C, 2H, 3 %Acetic acid (w/v)	N.D.	N.D.	N.D.	0.01	1
Ammonium	mg/kg		N.D.	N.D.	N.D.	0.01	-
Antimony(Sb)	mg/kg		N.D.	N.D.	N.D.	0.01	0.04
Arsenic(As)	mg/kg		N.D.	N.D.	N.D.	0.01	N.D.
Barium(Ba)	mg/kg		N.D.	N.D.	N.D.	0.01	1
Cadmium(Cd)	mg/kg		N.D.	N.D.	N.D.	0.002	N.D.
Calcium(Ca)	mg/kg		N.D.	N.D.	N.D.	0.01	-
Chromium(Cr)	mg/kg		N.D.	N.D.	N.D.	0.01	N.D.
Cobalt(Co)	mg/kg		N.D.	N.D.	N.D.	0.01	0.05
Copper(Cu)	mg/kg		N.D.	N.D.	N.D.	0.01	5
Europium(Eu)	mg/kg		N.D.	N.D.	N.D.	0.01	0.05
Gadolinium(Gd)	mg/kg		N.D.	N.D.	N.D.	0.01	0.05
Iron(Fe)	mg/kg		N.D.	N.D.	N.D.	0.1	48
Lanthanum(La)	mg/kg		N.D.	N.D.	N.D.	0.01	0.05
Lead(Pb)	mg/kg		N.D.	N.D.	N.D.	0.01	N.D.
Lithium(Li)	mg/kg		N.D.	N.D.	N.D.	0.01	0.6
Magnesium(Mg)	mg/kg		N.D.	N.D.	N.D.	0.01	-
Manganese(Mn)	mg/kg		N.D.	N.D.	N.D.	0.01	0.6
Mercury(Hg)	mg/kg		N.D.	N.D.	N.D.	0.01	N.D.
Nickel(Ni)	mg/kg		N.D.	N.D.	N.D.	0.01	0.02
Potassium(K)	mg/kg		N.D.	N.D.	N.D.	0.01	-
Sodium(Na)	mg/kg		N.D.	N.D.	N.D.	0.01	-
Terbium(Tb)	mg/kg		N.D.	N.D.	N.D.	0.01	0.05
Zinc(Zn)	mg/kg		N.D.	N.D.	N.D.	0.1	5

Note:

1. mg/kg =milligrams per kilogram
2. N.D. = Not Detected (<RL)
3. RL=Reporting Limit

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1.4. Primary aromatic amines

Method: 3 %Acetic acid ,70℃,2 hours,Refer to EN 13130-1:2004, was analyzed by LC-MS-MS.

No.	Name	CAS No.	Result 1			RL
			1st	2nd	3rd	
1	4-Aninobiphenyl	92-67-1	N.D.	N.D.	N.D.	0.002
2	4-Chloro-o-toluidine	95-69-2	N.D.	N.D.	N.D.	0.002
3	2-Naphthylamine	91-59-8	N.D.	N.D.	N.D.	0.002
4	o-Aminoazotoluene	97-56-3	N.D.	N.D.	N.D.	0.002
5	2-Amino-4-nitrotoluene	99-55-8	N.D.	N.D.	N.D.	0.002
6	p-Chloroaniline	106-47-8	N.D.	N.D.	N.D.	0.002
7	2,4-Diaminoaniso	615-05-4	N.D.	N.D.	N.D.	0.002
8	4,4'-Diaminobiphenylmethane	101-77-9	N.D.	N.D.	N.D.	0.002
9	3,3'-Dichlorobenzidine	91-94-1	N.D.	N.D.	N.D.	0.002
10	3,3'-Dimethoxybenzidine	119-90-4	N.D.	N.D.	N.D.	0.002
11	3,3'-Dimethylbenzidine	119-93-7	N.D.	N.D.	N.D.	0.002
12	3,3'-Dimethyl-4,4'-diaminobiphenylmethane	838-88-0	N.D.	N.D.	N.D.	0.002
13	p-Cresidine	120-71-8	N.D.	N.D.	N.D.	0.002
14	4,4'-Methylene-bis- (2-chloroaniline)	101-14-4	N.D.	N.D.	N.D.	0.002
15	4,4'-Oxydianiline	101-80-4	N.D.	N.D.	N.D.	0.002
16	4,4'-Thiodianiline	139-65-1	N.D.	N.D.	N.D.	0.002
17	o-Toluidine	95-53-4	N.D.	N.D.	N.D.	0.002
18	2,4-Toluyldiamine	95-80-7	N.D.	N.D.	N.D.	0.002
19	2,4,5-Trimethylaniline	137-17-7	N.D.	N.D.	N.D.	0.002
20	o-Anisidine	90-04-0	N.D.	N.D.	N.D.	0.002
21	2,4-Xylidine	95-68-1	N.D.	N.D.	N.D.	0.002
22	2,6-Xylidine	87-62-7	N.D.	N.D.	N.D.	0.002
23	m-phenylenediamine	108-45-2	N.D.	N.D.	N.D.	0.002
Sum of PAAs		-	N.D.	N.D.	N.D.	0.01

Note:

1. mg/kg =milligrams per kilogram
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1.5. Phthalate content

Method: Refer to in house method, was analyzed by GC-MS.

Test Item(s)	Unit	Result 1	RL	Limit
Dibutyl Phthalate(DBP)	mg/kg	N.D.	30	500
Benzylbutyl Phthalate (BBP)	mg/kg	N.D.	30	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	N.D.	30	1000
Diisononyl Phthalate(DINP)	mg/kg	N.D.	100	1000
Diisodecyl Phthalate (DIDP)	mg/kg	N.D.	100	1000

Note:

1. mg/kg = milligrams per kilogram
2. N.D. = Not Detected (<RL)
3. RL=Reporting Limit

1.6. Specific Migration of Bisphenol A(BPA)

Test Item(s)	Test condition	RL	Result 1 (µg/kg)			Limit(µg/kg)
			1st	2nd	3rd	
Bisphenol A(BPA)	3%acetic acid, 70°C, 2hours	1	N.D.	N.D.	N.D.	1

Note:

1. µg/kg=microgram per kilogram
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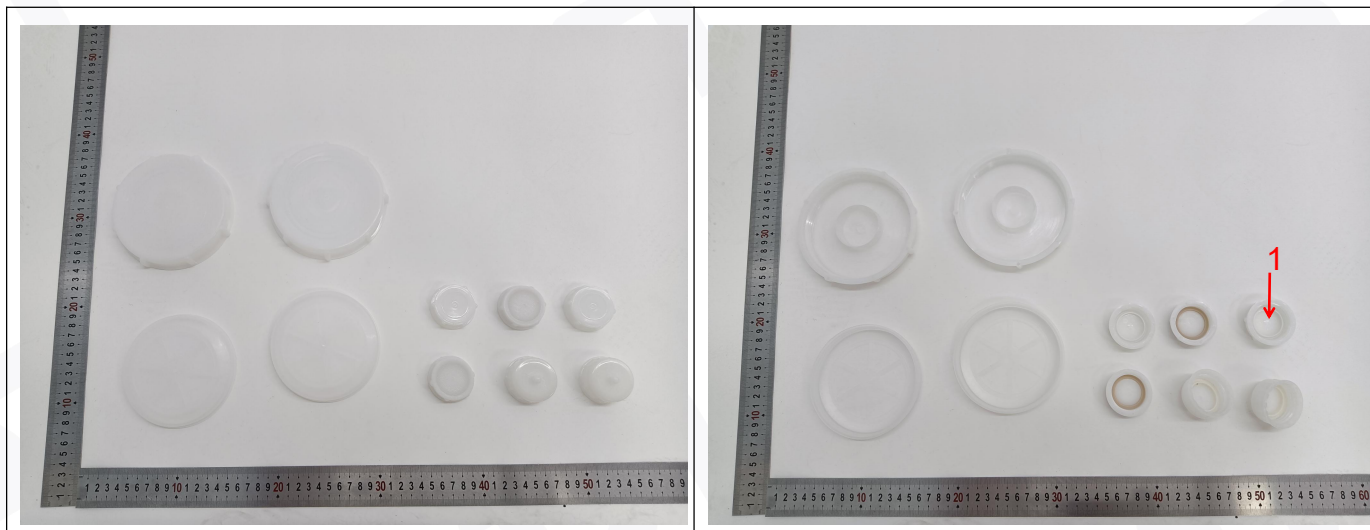
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Sample pictures:



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