TEST REPORT

Report No.: HA0124NB072455SPC Date: July 10, 2024 Page 1 of 26

Applicant	:	Changzhou Shule Kitchen Utensil Co., Ltd.
Address	:	19 Cuiping Lake Road, Xixiashu, Changzhou, Jiangsu, China
Manufacturer	:	Changzhou Shule Kitchen Utensil Co., Ltd.
Address	:	19 Cuiping Lake Road, Xixiashu, Changzhou, Jiangsu, China

The following samples were submitted and identified by/on behalf of the client as:

Product Name	:	PASTA MACHINE / DUMPLING MAKER
Product Model	:	QF-150, QF-180, QH, QJ，QM-1, QM-1 Plus, MD180(17.4)-Ⅱ, MD150-Ⅰ，MD150-Ⅱ, SLK-150, QF-17, 4983029, 4983033
Order Number	:	PO 84797
Date of Sample Received	:	June 30, 2023
Sample Testing Date	:	June 30, 2023 to July 11, 2023

Test Requested	For material which contact with foodstuff, selected tests were performed for compliant with the following regulations: - In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB), Section 30 and 31 and BfR recommendation. - Council of Europe Resolution CM/Res(2013)9. - Regulation EU 2020/1245 of the European Parliament on materials and articles intended to come into contact with food and EU Regulation 10/2011 for plastic materials which are intended to come into contact with food.
Test Method	Please refer to next pages
Test Result	Please refer to next pages
Test Conclusion	Pass

******** For Further Details, Please Refer to the Following Page(s) ********

Compiled by:

Fiona Zhang / Project Engineer

Approved by:

Milse Xie/ Laboratory Superviser

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Tel: 86-574-55127888 Website: www.hatek.com.cn E-mail: info@hatek.com.cn

Test Results:

1. SENSORIAL EXAMINATION

Test Items	Testing Condition	Result	Limit (scale)
Smell	Distilled water, 30mins, 40 °C	0	2.5
Taste	Distilled water, 30mins, 40 °C	0	2.5
Conclusion	---	Pass	---

Note:

1. Method: With reference to DIN 10955: 2004. The submitted sample was treated with food stimulant.
2. Evaluation scheme for the transfer of taste and smell:

   Scale:

   0 = no discernible deviation

   1 = barely discernible deviation

   2 = weak deviation

   3 = clear deviation

   4 = strong deviation

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2. HEAVY METAL EXTRACTABLE

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

Test Items	Test condition	Unit	Results (3rd migration)	MDL	Limit (3rd migration)
			No.1		
Aluminium (Al)	0.5% Citric Acid, 30mins at 40°C	mg/kg	N.D.	0.2	5
Antimony (Sb)		mg/kg	N.D.	0.02	0.04
Chromium (Cr)		mg/kg	N.D.	0.1	0.25
Cobalt (Co)		mg/kg	N.D.	0.01	0.02
Copper (Cu)		mg/kg	N.D.	0.1	4
Iron (Fe)		mg/kg	N.D.	0.25	40
Manganese (Mn)		mg/kg	N.D.	0.25	1.8
Molybdenum (Mo)		mg/kg	N.D.	0.02	0.12
Nickel (Ni)		mg/kg	N.D.	0.05	0.14
Silver (Ag)		mg/kg	N.D.	0.03	0.08
Tin (Sn)		mg/kg	N.D.	5	100
Vanadium (V)		mg/kg	N.D.	0.005	0.01
Zinc (Zn)		mg/kg	N.D.	1	5
Arsenic (As)		mg/kg	N.D.	0.001	0.002
Barium (Ba)		mg/kg	N.D.	0.25	1.2
Beryllium (Be)		mg/kg	N.D.	0.005	0.01
Cadmium (Cd)		mg/kg	N.D.	0.002	0.005
Lead (Pb)		mg/kg	N.D.	0.005	0.01
Lithium (Li)		mg/kg	N.D.	0.02	0.048
Mercury (Hg)		mg/kg	N.D.	0.002	0.003
Thallium (Tl)		mg/kg	N.D.	0.0001	0.0001

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TEST REPORT

Test Items	Test condition	Unit	Results	MDL	Limit (1^{st}+2^{nd} migration)
			No.1		
Aluminium (Al)	0.5% Citric Acid, 30mins at 40°C	mg/kg	N.D.	0.2	35
Antimony (Sb)		mg/kg	N.D.	0.02	0.28
Chromium (Cr)		mg/kg	N.D.	0.1	1.75
Cobalt (Co)		mg/kg	N.D.	0.01	0.14
Copper (Cu)		mg/kg	N.D.	0.1	28
Iron (Fe)		mg/kg	N.D.	0.25	280
Manganese (Mn)		mg/kg	N.D.	0.25	12.6
Molybdenum (Mo)		mg/kg	N.D.	0.02	0.84
Nickel (Ni)		mg/kg	N.D.	0.05	0.98
Silver (Ag)		mg/kg	N.D.	0.03	0.56
Tin (Sn)		mg/kg	N.D.	5	700
Vanadium (V)		mg/kg	N.D.	0.005	0.07
Zinc (Zn)		mg/kg	N.D.	1	35
Arsenic (As)		mg/kg	N.D.	0.001	0.014
Barium (Ba)		mg/kg	N.D.	0.25	8.4
Beryllium (Be)		mg/kg	N.D.	0.005	0.07
Cadmium (Cd)		mg/kg	N.D.	0.002	0.035
Lead (Pb)		mg/kg	N.D.	0.005	0.07
Lithium (Li)		mg/kg	N.D.	0.02	0.336
Mercury (Hg)		mg/kg	N.D.	0.002	0.021
Thallium (Tl)		mg/kg	N.D.	0.0001	0.0007
Conclusion	---	---	Pass	---	---

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Test Items	Test condition	Unit	Results (3rd migration)		MDL	Limit (3rd migration)
			No.2	No.3		
Aluminium (Al)	Artificial tap water, 30mins at 40°C	mg/kg	N.D.	N.D.	0.2	5
Antimony (Sb)		mg/kg	N.D.	N.D.	0.02	0.04
Chromium (Cr)		mg/kg	N.D.	N.D.	0.1	0.25
Cobalt (Co)		mg/kg	N.D.	N.D.	0.01	0.02
Copper (Cu)		mg/kg	N.D.	N.D.	0.1	4
Iron (Fe)		mg/kg	N.D.	N.D.	0.25	40
Manganese (Mn)		mg/kg	N.D.	N.D.	0.25	1.8
Molybdenum (Mo)		mg/kg	N.D.	N.D.	0.02	0.12
Nickel (Ni)		mg/kg	N.D.	N.D.	0.05	0.14
Silver (Ag)		mg/kg	N.D.	N.D.	0.03	0.08
Tin (Sn)		mg/kg	N.D.	N.D.	5	100
Vanadium (V)		mg/kg	N.D.	N.D.	0.005	0.01
Zinc (Zn)		mg/kg	N.D.	N.D.	1	5
Arsenic (As)		mg/kg	N.D.	N.D.	0.001	0.002
Barium (Ba)		mg/kg	N.D.	N.D.	0.25	1.2
Beryllium (Be)		mg/kg	N.D.	N.D.	0.005	0.01
Cadmium (Cd)		mg/kg	N.D.	N.D.	0.002	0.005
Lead (Pb)		mg/kg	N.D.	N.D.	0.005	0.01
Lithium (Li)		mg/kg	N.D.	N.D.	0.02	0.048
Mercury (Hg)		mg/kg	N.D.	N.D.	0.002	0.003
Thallium (Tl)		mg/kg	N.D.	N.D.	0.0001	0.0001

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Test Items	Test condition	Unit	Results		MDL	Limit (1^{st}+2^{nd} migration)
			No.2	No.3		
Aluminium (Al)	Artificial tap water, 30mins at 40°C	mg/kg	N.D.	N.D.	0.2	35
Antimony (Sb)		mg/kg	N.D.	N.D.	0.02	0.28
Chromium (Cr)		mg/kg	N.D.	N.D.	0.1	1.75
Cobalt (Co)		mg/kg	N.D.	N.D.	0.01	0.14
Copper (Cu)		mg/kg	N.D.	N.D.	0.1	28
Iron (Fe)		mg/kg	N.D.	N.D.	0.25	280
Manganese (Mn)		mg/kg	N.D.	N.D.	0.25	12.6
Molybdenum (Mo)		mg/kg	N.D.	N.D.	0.02	0.84
Nickel (Ni)		mg/kg	N.D.	N.D.	0.05	0.98
Silver (Ag)		mg/kg	N.D.	N.D.	0.03	0.56
Tin (Sn)		mg/kg	N.D.	N.D.	5	700
Vanadium (V)		mg/kg	N.D.	N.D.	0.005	0.07
Zinc (Zn)		mg/kg	N.D.	N.D.	1	35
Arsenic (As)		mg/kg	N.D.	N.D.	0.001	0.014
Barium (Ba)		mg/kg	N.D.	N.D.	0.25	8.4
Beryllium (Be)		mg/kg	N.D.	N.D.	0.005	0.07
Cadmium (Cd)		mg/kg	N.D.	N.D.	0.002	0.035
Lead (Pb)		mg/kg	N.D.	N.D.	0.005	0.07
Lithium (Li)		mg/kg	N.D.	N.D.	0.02	0.336
Mercury (Hg)		mg/kg	N.D.	N.D.	0.002	0.021
Thallium (Tl)		mg/kg	N.D.	N.D.	0.0001	0.0007
Conclusion	---	---	Pass	Pass	---	---

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Note:
1. ppm = mg/kg =0.0001%.
2. N.D. = Not Detected.
3. MDL= Method Detection Limit.

3. OVERALL MIGRATION TEST FOR PLASTIC

Test method: As specified in Regulation (EU) No.10/2011, with reference to EN 1186:part 1, part 2, part 3, part 8, part 9 & part 14 :2002.

Simulant Used	Test Condition	Result [mg/dm²]			Maximum Permissible Limit [mg/dm²]
		No.4			
		1st	2nd	3rd	
10% Ethanol	40°C for 30mins	< 3.0	< 3.0	< 3.0	10

Simulant Used	Test Condition	Result [mg/dm²]			Maximum Permissible Limit [mg/dm²]
		No.5			
		1st	2nd	3rd	
10% Ethanol	40°C for 30mins	< 3.0	< 3.0	< 3.0	10

Simulant Used	Test Condition	Result [mg/dm²]			Maximum Permissible Limit [mg/dm²]
		No.6			
		1st	2nd	3rd	
10% Ethanol	40°C for 30mins	< 3.0	< 3.0	< 3.0	10

Note:
1. “°C” denotes degree Celsius.
2. “mg/dm^2” denotes milligram per square decimeter.
3. "<" denotes less than.
4. The specification was quoted from regulation EU 2020/1245.

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4. SPECIFIC MIGRATION OF PRIMARY AROMATIC AMINE TEST

Test method: With reference to EN 1186-1: 2002, followed by Kunststoffe im Lebensmittelvekehr, Book 2, Teil B II, XXI. [Detection limit: 0.01 mg/kg]

Testing condition and simulant: 10% Ethanol at 40 °C for 30mins.

Parameter	CAS no.	Unit	RL	Result			Limit
				No.4			
				1st	2nd	3rd	
2,4,5-Trimethylaniline	137-17-7	mg/kg	0.002	ND	ND	ND	ND(<0.002)
2,4-Diaminoanisole	615-05-4	mg/kg	0.002	ND	ND	ND	ND(<0.002)
2-Naphthylamine	91-59-8	mg/kg	0.002	ND	ND	ND	ND(<0.002)
3,3'-Dichlorobenzidine	91-94-1	mg/kg	0.002	ND	ND	ND	ND(<0.002)
4,4'-methylene-bis-(2-chloro-aniline)	101-14-4	mg/kg	0.002	ND	ND	ND	ND(<0.002)
4,4'-methylenedianiline	101-77-9	mg/kg	0.002	ND	ND	ND	ND(<0.002)
4,4'-oxydianiline	101-80-4	mg/kg	0.002	ND	ND	ND	ND(<0.002)
4,4'-thiodianiline	139-65-1	mg/kg	0.002	ND	ND	ND	ND(<0.002)
4-aminoazobenzene	60-09-3	mg/kg	0.002	ND	ND	ND	ND(<0.002)
4-aminobiphenyl	92-67-1	mg/kg	0.002	ND	ND	ND	ND(<0.002)
4-chloro-o-toluidine	95-69-2	mg/kg	0.002	ND	ND	ND	ND(<0.002)
o-anisidine	90-04-0	mg/kg	0.002	ND	ND	ND	ND(<0.002)
Benzidine	92-87-5	mg/kg	0.002	ND	ND	ND	ND(<0.002)
4-chloroaniline	106-47-8	mg/kg	0.002	ND	ND	ND	ND(<0.002)
o-aminoazotoluene	97-56-3	mg/kg	0.002	ND	ND	ND	ND(<0.002)
p-cresidine	120-71-8	mg/kg	0.002	ND	ND	ND	ND(<0.002)
4,4'-bi-o-toluidine	119-93-7	mg/kg	0.002	ND	ND	ND	ND(<0.002)
2,4-toluenediamine	95-80-7	mg/kg	0.002	ND	ND	ND	ND(<0.002)
o-Toluidine	95-53-4	mg/kg	0.002	ND	ND	ND	ND(<0.002)
3,3'-Dimethoxybenzidine	119-90-4	mg/kg	0.002	ND	ND	ND	ND(<0.002)
4,4'-Methylene-di-o-toluidine	838-88-0	mg/kg	0.002	ND	ND	ND	ND(<0.002)
2-Methyl-5-nitroaniline	99-55-8	mg/kg	0.002	ND	ND	ND	ND(<0.002)
m-phenylenediamine	108-45-2	mg/kg	0.002	ND	ND	ND	ND(<0.002)
Benzoguanamine	91-76-9	mg/kg	0.002	ND	ND	ND	ND(<0.002)
4,4'-Methylenebis-(3-cholor-2,6-diethylaniline)	106246-33-7	mg/kg	0.002	ND	ND	ND	ND(<0.002)
PAAs not listed in entry 43 to Appendix 8 of Annex XVll to Regulation(EC)No 1907/2006 and itsamendments							
2,4-Dimethylaniline	95-68-1	mg/kg	0.01	ND	ND	ND	---
2-ethoxyaniline	94-70-2	mg/kg	0.01	ND	ND	ND	---
3-Amino-4-methoxybenzanilide	120-35-4	mg/kg	0.01	ND	ND	ND	---
3-Amino-4-methylbenzamide	19406-86-1	mg/kg	0.01	ND	ND	ND	---
4-aminobenzamide	2835-68-9	mg/kg	0.01	ND	ND	ND	---
4-chloro-2,5-dimethoxyaniline	6358-64-1	mg/kg	0.01	ND	ND	ND	---
4-Ethoxyaniline	156-43-4	mg/kg	0.01	ND	ND	ND	---

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Dimethyl-2- aminoterephthalate	5372-81-6	mg/kg	0.01	ND	ND	ND	---
2-Chloroaniline	95-51-2	mg/kg	0.01	ND	ND	ND	---
5-Chloro-2-methoxyaniline	95-03-4	mg/kg	0.01	ND	ND	ND	---
2-Nitroaniline	88-74-4	mg/kg	0.01	ND	ND	ND	---
1,3-Diiminoisoindoline	3468-11-9	mg/kg	0.01	ND	ND	ND	---
2-Chloro-4-nitroaniline	121-87-9	mg/kg	0.01	ND	ND	ND	---
2-Methoxy-4-nitroaniline	97-52-9	mg/kg	0.01	ND	ND	ND	---
4-Chloro-3-methoxyaniline	13726-14-2	mg/kg	0.01	ND	ND	ND	---
5-Amino-6-methyl-1,3-dihydro-2H-benzimidazol-2-one	67014-36-2	mg/kg	0.01	ND	ND	ND	---
2-Aminonaphthalene-1-sulfonic acid	81-16-3	mg/kg	0.01	ND	ND	ND	---
4-Aminotoluene-3-sulfonicacid	88-44-8	mg/kg	0.01	ND	ND	ND	---
2,5-Dichloroaniline	95-82-9	mg/kg	0.01	ND	ND	ND	---
2,4,5-Trichloroaniline	636-30-6	mg/kg	0.01	ND	ND	ND	---
2,4-Dinitroaniline	97-02-09	mg/kg	0.01	ND	ND	ND	---
Biphenyl-2-ylamine	90-41-5	mg/kg	0.01	ND	ND	ND	---
2-Methyl-4-nitroaniline	99-52-5	mg/kg	0.01	ND	ND	ND	---
1,5-naphthylenediamine	2243-62-7	mg/kg	0.01	ND	ND	ND	---
2,6-Dimethylaniline	87-62-7	mg/kg	0.01	ND	ND	ND	---
5-Chloro-2-methylaniline	95-79-4	mg/kg	0.01	ND	ND	ND	---
Aniline	62-53-3	mg/kg	0.01	ND	ND	ND	---
m-Anisidine	536-90-3	mg/kg	0.01	ND	ND	ND	---
3-Chloroaniline	108-42-9	mg/kg	0.01	ND	ND	ND	---
o-phenylenediamine	95-54-5	mg/kg	0.01	ND	ND	ND	---
p-phenylenediamine	106-50-3	mg/kg	0.01	ND	ND	ND	---
2,6-toluenediamine	823-40-5	mg/kg	0.01	ND	ND	ND	---
p-toluidine	106-49-0	mg/kg	0.01	ND	ND	ND	---
m-toluidine	108-44-1	mg/kg	0.01	ND	ND	ND	---
Sum of PAAs	N.A.	mg/kg	0.01	ND	ND	ND	ND(<0.01)

Parameter	**CAS no.**	**Unit**	**RL**	**Result**			**Limit**
				No.5			
				1st	**2nd**	**3rd**	
2,4,5-Trimethylaniline	137-17-7	mg/kg	0.002	ND	ND	ND	ND(<0.002)
2,4-Diaminoanisole	615-05-4	mg/kg	0.002	ND	ND	ND	ND(<0.002)
2-Naphthylamine	91-59-8	mg/kg	0.002	ND	ND	ND	ND(<0.002)
3,3'-Dichlorobenzidine	91-94-1	mg/kg	0.002	ND	ND	ND	ND(<0.002)
4,4'-methylene-bis-(2-chloro-aniline)	101-14-4	mg/kg	0.002	ND	ND	ND	ND(<0.002)
4,4'-methylenedianiline	101-77-9	mg/kg	0.002	ND	ND	ND	ND(<0.002)
4,4'-oxydianiline	101-80-4	mg/kg	0.002	ND	ND	ND	ND(<0.002)

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4,4'-thiodianiline	139-65-1	mg/kg	0.002	ND	ND	ND	ND(<0.002)
4-aminoazobenzene	60-09-3	mg/kg	0.002	ND	ND	ND	ND(<0.002)
4-aminobiphenyl	92-67-1	mg/kg	0.002	ND	ND	ND	ND(<0.002)
4-chloro-o-toluidine	95-69-2	mg/kg	0.002	ND	ND	ND	ND(<0.002)
o-anisidine	90-04-0	mg/kg	0.002	ND	ND	ND	ND(<0.002)
Benzidine	92-87-5	mg/kg	0.002	ND	ND	ND	ND(<0.002)
4-chloroaniline	106-47-8	mg/kg	0.002	ND	ND	ND	ND(<0.002)
o-aminoazotoluene	97-56-3	mg/kg	0.002	ND	ND	ND	ND(<0.002)
p-cresidine	120-71-8	mg/kg	0.002	ND	ND	ND	ND(<0.002)
4,4'-bi-o-toluidine	119-93-7	mg/kg	0.002	ND	ND	ND	ND(<0.002)
2,4-toluenediamine	95-80-7	mg/kg	0.002	ND	ND	ND	ND(<0.002)
o-Toluidine	95-53-4	mg/kg	0.002	ND	ND	ND	ND(<0.002)
3,3'-Dimethoxybenzidine	119-90-4	mg/kg	0.002	ND	ND	ND	ND(<0.002)
4,4'-Methylene-di-o-toluidine	838-88-0	mg/kg	0.002	ND	ND	ND	ND(<0.002)
2-Methyl-5-nitroaniline	99-55-8	mg/kg	0.002	ND	ND	ND	ND(<0.002)
m-phenylenediamine	108-45-2	mg/kg	0.002	ND	ND	ND	ND(<0.002)
Benzoguanamine	91-76-9	mg/kg	0.002	ND	ND	ND	ND(<0.002)
4,4'-Methylenebis-(3-cholor-2,6-diethylaniline)	106246-33-7	mg/kg	0.002	ND	ND	ND	ND(<0.002)
PAAs not listed in entry 43 to Appendix 8 of Annex XVll to Regulation(EC)No 1907/2006 and itsamendments							
2,4-Dimethylaniline	95-68-1	mg/kg	0.01	ND	ND	ND	---
2-ethoxyaniline	94-70-2	mg/kg	0.01	ND	ND	ND	---
3-Amino-4-methoxybenzanilide	120-35-4	mg/kg	0.01	ND	ND	ND	---
3-Amino-4-methylbenzamide	19406-86-1	mg/kg	0.01	ND	ND	ND	---
4-aminobenzamide	2835-68-9	mg/kg	0.01	ND	ND	ND	---
4-chloro-2,5-dimethoxyaniline	6358-64-1	mg/kg	0.01	ND	ND	ND	---
4-Ethoxyaniline	156-43-4	mg/kg	0.01	ND	ND	ND	---
Dimethyl-2- aminoterephthalate	5372-81-6	mg/kg	0.01	ND	ND	ND	---
2-Chloroaniline	95-51-2	mg/kg	0.01	ND	ND	ND	---
5-Chloro-2-methoxyaniline	95-03-4	mg/kg	0.01	ND	ND	ND	---
2-Nitroaniline	88-74-4	mg/kg	0.01	ND	ND	ND	---
1,3-Diiminoisoindoline	3468-11-9	mg/kg	0.01	ND	ND	ND	---
2-Chloro-4-nitroaniline	121-87-9	mg/kg	0.01	ND	ND	ND	---
2-Methoxy-4-nitroaniline	97-52-9	mg/kg	0.01	ND	ND	ND	---
4-Chloro-3-methoxyaniline	13726-14-2	mg/kg	0.01	ND	ND	ND	---
5-Amino-6-methyl-1,3-dihydro-2H-benzimidazol-2-one	67014-36-2	mg/kg	0.01	ND	ND	ND	---
2-Aminonaphthalene-1-sulfonic acid	81-16-3	mg/kg	0.01	ND	ND	ND	---
4-Aminotoluene-3-sulfonicacid	88-44-8	mg/kg	0.01	ND	ND	ND	---
2,5-Dichloroaniline	95-82-9	mg/kg	0.01	ND	ND	ND	---
2,4,5-Trichloroaniline	636-30-6	mg/kg	0.01	ND	ND	ND	---

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2,4-Dinitroaniline	97-02-09	mg/kg	0.01	ND	ND	ND	---
Biphenyl-2-ylamine	90-41-5	mg/kg	0.01	ND	ND	ND	---
2-Methyl-4-nitroaniline	99-52-5	mg/kg	0.01	ND	ND	ND	---
1,5-naphthylenediamine	2243-62-7	mg/kg	0.01	ND	ND	ND	---
2,6-Dimethylaniline	87-62-7	mg/kg	0.01	ND	ND	ND	---
5-Chloro-2-methylaniline	95-79-4	mg/kg	0.01	ND	ND	ND	---
Aniline	62-53-3	mg/kg	0.01	ND	ND	ND	---
m-Anisidine	536-90-3	mg/kg	0.01	ND	ND	ND	---
3-Chloroaniline	108-42-9	mg/kg	0.01	ND	ND	ND	---
o-phenylenediamine	95-54-5	mg/kg	0.01	ND	ND	ND	---
p-phenylenediamine	106-50-3	mg/kg	0.01	ND	ND	ND	---
2,6-toluenediamine	823-40-5	mg/kg	0.01	ND	ND	ND	---
p-toluidine	106-49-0	mg/kg	0.01	ND	ND	ND	---
m-toluidine	108-44-1	mg/kg	0.01	ND	ND	ND	---
Sum of PAAs	N.A.	mg/kg	0.01	ND	ND	ND	ND(<0.01)

Parameter	CAS no.	Unit	RL	Result			Limit
				No.6			
				1st	2nd	3rd	
2,4,5-Trimethylaniline	137-17-7	mg/kg	0.002	ND	ND	ND	ND(<0.002)
2,4-Diaminoanisole	615-05-4	mg/kg	0.002	ND	ND	ND	ND(<0.002)
2-Naphthylamine	91-59-8	mg/kg	0.002	ND	ND	ND	ND(<0.002)
3,3'-Dichlorobenzidine	91-94-1	mg/kg	0.002	ND	ND	ND	ND(<0.002)
4,4'-methylene-bis-(2-chloro-aniline)	101-14-4	mg/kg	0.002	ND	ND	ND	ND(<0.002)
4,4'-methylenedianiline	101-77-9	mg/kg	0.002	ND	ND	ND	ND(<0.002)
4,4'-oxydianiline	101-80-4	mg/kg	0.002	ND	ND	ND	ND(<0.002)
4,4'-thiodianiline	139-65-1	mg/kg	0.002	ND	ND	ND	ND(<0.002)
4-aminoazobenzene	60-09-3	mg/kg	0.002	ND	ND	ND	ND(<0.002)
4-aminobiphenyl	92-67-1	mg/kg	0.002	ND	ND	ND	ND(<0.002)
4-chloro-o-toluidine	95-69-2	mg/kg	0.002	ND	ND	ND	ND(<0.002)
o-anisidine	90-04-0	mg/kg	0.002	ND	ND	ND	ND(<0.002)
Benzidine	92-87-5	mg/kg	0.002	ND	ND	ND	ND(<0.002)
4-chloroaniline	106-47-8	mg/kg	0.002	ND	ND	ND	ND(<0.002)
o-aminoazotoluene	97-56-3	mg/kg	0.002	ND	ND	ND	ND(<0.002)
p-cresidine	120-71-8	mg/kg	0.002	ND	ND	ND	ND(<0.002)
4,4'-bi-o-toluidine	119-93-7	mg/kg	0.002	ND	ND	ND	ND(<0.002)
2,4-toluenediamine	95-80-7	mg/kg	0.002	ND	ND	ND	ND(<0.002)
o-Toluidine	95-53-4	mg/kg	0.002	ND	ND	ND	ND(<0.002)
3,3'-Dimethoxybenzidine	119-90-4	mg/kg	0.002	ND	ND	ND	ND(<0.002)
4,4'-Methylene-di-o-toluidine	838-88-0	mg/kg	0.002	ND	ND	ND	ND(<0.002)
2-Methyl-5-nitroaniline	99-55-8	mg/kg	0.002	ND	ND	ND	ND(<0.002)

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Benzoguanamine	91-76-9	mg/kg	0.002	ND	ND	ND	ND(<0.002)
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2-ethoxyaniline	94-70-2	mg/kg	0.01	ND	ND	ND	---
3-Amino-4-methoxybenzanilide	120-35-4	mg/kg	0.01	ND	ND	ND	---
3-Amino-4-methylbenzamide	19406-86-1	mg/kg	0.01	ND	ND	ND	---
4-aminobenzamide	2835-68-9	mg/kg	0.01	ND	ND	ND	---
4-chloro-2,5-dimethoxyaniline	6358-64-1	mg/kg	0.01	ND	ND	ND	---
4-Ethoxyaniline	156-43-4	mg/kg	0.01	ND	ND	ND	---
Dimethyl-2- aminoterephthalate	5372-81-6	mg/kg	0.01	ND	ND	ND	---
2-Chloroaniline	95-51-2	mg/kg	0.01	ND	ND	ND	---
5-Chloro-2-methoxyaniline	95-03-4	mg/kg	0.01	ND	ND	ND	---
2-Nitroaniline	88-74-4	mg/kg	0.01	ND	ND	ND	---
1,3-Diiminoisoindoline	3468-11-9	mg/kg	0.01	ND	ND	ND	---
2-Chloro-4-nitroaniline	121-87-9	mg/kg	0.01	ND	ND	ND	---
2-Methoxy-4-nitroaniline	97-52-9	mg/kg	0.01	ND	ND	ND	---
4-Chloro-3-methoxyaniline	13726-14-2	mg/kg	0.01	ND	ND	ND	---
5-Amino-6-methyl-1,3-dihydro-2H-benzimidazol-2-one	67014-36-2	mg/kg	0.01	ND	ND	ND	---
2-Aminonaphthalene-1-sulfonic acid	81-16-3	mg/kg	0.01	ND	ND	ND	---
4-Aminotoluene-3-sulfonicacid	88-44-8	mg/kg	0.01	ND	ND	ND	---
2,5-Dichloroaniline	95-82-9	mg/kg	0.01	ND	ND	ND	---
2,4,5-Trichloroaniline	636-30-6	mg/kg	0.01	ND	ND	ND	---
2,4-Dinitroaniline	97-02-09	mg/kg	0.01	ND	ND	ND	---
Biphenyl-2-ylamine	90-41-5	mg/kg	0.01	ND	ND	ND	---
2-Methyl-4-nitroaniline	99-52-5	mg/kg	0.01	ND	ND	ND	---
1,5-naphthylenediamine	2243-62-7	mg/kg	0.01	ND	ND	ND	---
2,6-Dimethylaniline	87-62-7	mg/kg	0.01	ND	ND	ND	---
5-Chloro-2-methylaniline	95-79-4	mg/kg	0.01	ND	ND	ND	---
Aniline	62-53-3	mg/kg	0.01	ND	ND	ND	---
m-Anisidine	536-90-3	mg/kg	0.01	ND	ND	ND	---
3-Chloroaniline	108-42-9	mg/kg	0.01	ND	ND	ND	---
o-phenylenediamine	95-54-5	mg/kg	0.01	ND	ND	ND	---
p-phenylenediamine	106-50-3	mg/kg	0.01	ND	ND	ND	---
2,6-toluenediamine	823-40-5	mg/kg	0.01	ND	ND	ND	---
p-toluidine	106-49-0	mg/kg	0.01	ND	ND	ND	---
m-toluidine	108-44-1	mg/kg	0.01	ND	ND	ND	---
Sum of PAAs	N.A.	mg/kg	0.01	ND	ND	ND	ND(<0.01)

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Note:

1. “mg/kg” denotes milligram per kilogram foodstuff.
2. "<" denotes less than.
3. The specification was quoted from regulation EU 2020/1245.

5. SPECIFIC MIGRATION OF HEAVY METALS TEST

Test method: As specified in Regulation (EU) No.10/2011, the sample(s) were migrated with food simulant, followed by Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES) analysis.
Testing condition and simulant: 10% Ethanol at 40 ^{o}C for 30mins.

Soluble Element	Unit	Limit	Result			Conclusion
			No.4			
			1st	2nd	3rd	
Barium (Ba)	mg/kg	1	<0.1	<0.1	<0.1	Pass
Cobalt (Co)	mg/kg	0.05	<0.01	<0.01	<0.01	Pass
Copper (Cu)	mg/kg	5	<0.5	<0.5	<0.5	Pass
Iron (Fe)	mg/kg	48	<1	<1	<1	Pass
Lithium (Li)	mg/kg	0.6	<0.1	<0.1	<0.1	Pass
Manganese (Mn)	mg/kg	0.6	<0.1	<0.1	<0.1	Pass
Zinc (Zn)	mg/kg	25	<1	<1	<1	Pass
Aluminum (Al)	mg/kg	1	<0.1	<0.1	<0.1	Pass
Nickel (Ni)	mg/kg	0.02	<0.01	<0.01	<0.01	Pass
Ammonium	mg/kg	---	ND	ND	ND	Pass
Stibium (Sb)	mg/kg	0.04	<0.01	<0.01	<0.01	Pass
Arsenic (As)	mg/kg	ND	ND	ND	ND	Pass
Cadmium (Cd)	mg/kg	ND	ND	ND	ND	Pass
Calcium (Ca)	mg/kg	---	ND	ND	ND	Pass
Chromium (Cr)	mg/kg	ND	ND	ND	ND	Pass
Europium (Eu)	mg/kg	0.05	<0.01	<0.01	<0.01	Pass
Gadolinium (Gd)	mg/kg	0.05	<0.01	<0.01	<0.01	Pass
Lanthanum (La)	mg/kg	0.05	<0.01	<0.01	<0.01	Pass
Lead (Pb)	mg/kg	ND	ND	ND	ND	Pass
Magnesium (Mg)	mg/kg	---	ND	ND	ND	Pass
Mercury (Hg)	mg/kg	ND	ND	ND	ND	Pass
Potassium (K)	mg/kg	---	ND	ND	ND	Pass
Sodium (Na)	mg/kg	---	ND	ND	ND	Pass
Terbium (Tb)	mg/kg	0.05	<0.01	<0.01	<0.01	Pass

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Soluble Element	Unit	Limit	Result			Conclusion
			No.5			
			1st	2nd	3rd	
Barium (Ba)	mg/kg	1	<0.1	<0.1	<0.1	Pass
Cobalt (Co)	mg/kg	0.05	<0.01	<0.01	<0.01	Pass
Copper (Cu)	mg/kg	5	<0.5	<0.5	<0.5	Pass
Iron (Fe)	mg/kg	48	<1	<1	<1	Pass
Lithium (Li)	mg/kg	0.6	<0.1	<0.1	<0.1	Pass
Manganese (Mn)	mg/kg	0.6	<0.1	<0.1	<0.1	Pass
Zinc (Zn)	mg/kg	25	<1	<1	<1	Pass
Aluminum (Al)	mg/kg	1	<0.1	<0.1	<0.1	Pass
Nickel (Ni)	mg/kg	0.02	<0.01	<0.01	<0.01	Pass
Ammonium	mg/kg	---	ND	ND	ND	Pass
Stibium (Sb)	mg/kg	0.04	<0.01	<0.01	<0.01	Pass
Arsenic (As)	mg/kg	ND	ND	ND	ND	Pass
Cadmium (Cd)	mg/kg	ND	ND	ND	ND	Pass
Calcium (Ca)	mg/kg	---	ND	ND	ND	Pass
Chromium (Cr)	mg/kg	ND	ND	ND	ND	Pass
Europium (Eu)	mg/kg	0.05	<0.01	<0.01	<0.01	Pass
Gadolinium (Gd)	mg/kg	0.05	<0.01	<0.01	<0.01	Pass
Lanthanum (La)	mg/kg	0.05	<0.01	<0.01	<0.01	Pass
Lead (Pb)	mg/kg	ND	ND	ND	ND	Pass
Magnesium (Mg)	mg/kg	---	ND	ND	ND	Pass
Mercury (Hg)	mg/kg	ND	ND	ND	ND	Pass
Potassium (K)	mg/kg	---	ND	ND	ND	Pass
Sodium (Na)	mg/kg	---	ND	ND	ND	Pass
Terbium (Tb)	mg/kg	0.05	<0.01	<0.01	<0.01	Pass

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Soluble Element	Unit	Limit	Result			Conclusion
			No.6			
			1st	2nd	3rd	
Barium (Ba)	mg/kg	1	<0.1	<0.1	<0.1	Pass
Cobalt (Co)	mg/kg	0.05	<0.01	<0.01	<0.01	Pass
Copper (Cu)	mg/kg	5	<0.5	<0.5	<0.5	Pass
Iron (Fe)	mg/kg	48	<1	<1	<1	Pass
Lithium (Li)	mg/kg	0.6	<0.1	<0.1	<0.1	Pass
Manganese (Mn)	mg/kg	0.6	<0.1	<0.1	<0.1	Pass
Zinc (Zn)	mg/kg	25	<1	<1	<1	Pass
Aluminum (Al)	mg/kg	1	<0.1	<0.1	<0.1	Pass
Nickel (Ni)	mg/kg	0.02	<0.01	<0.01	<0.01	Pass
Ammonium	mg/kg	---	ND	ND	ND	Pass
Stibium (Sb)	mg/kg	0.04	<0.01	<0.01	<0.01	Pass
Arsenic (As)	mg/kg	ND	ND	ND	ND	Pass
Cadmium (Cd)	mg/kg	ND	ND	ND	ND	Pass
Calcium (Ca)	mg/kg	---	ND	ND	ND	Pass
Chromium (Cr)	mg/kg	ND	ND	ND	ND	Pass
Europium (Eu)	mg/kg	0.05	<0.01	<0.01	<0.01	Pass
Gadolinium (Gd)	mg/kg	0.05	<0.01	<0.01	<0.01	Pass
Lanthanum (La)	mg/kg	0.05	<0.01	<0.01	<0.01	Pass
Lead (Pb)	mg/kg	ND	ND	ND	ND	Pass
Magnesium (Mg)	mg/kg	---	ND	ND	ND	Pass
Mercury (Hg)	mg/kg	ND	ND	ND	ND	Pass
Potassium (K)	mg/kg	---	ND	ND	ND	Pass
Sodium (Na)	mg/kg	---	ND	ND	ND	Pass
Terbium (Tb)	mg/kg	0.05	<0.01	<0.01	<0.01	Pass

Note:

1. “mg/kg” denotes milligram per kilogram foodstuff.
2. "<" denotes less than.
3. The specification was quoted from regulation (EU) No.10/2011 and it’s amendments regulation (EU) 2020/1245.

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6. SPECIFIC MIGRATION OF ACRYLONITRILE AND BUTADIENE TEST

Test method: As specified in Regulation (EC) No. 1935/2004, the sample(s) were migrated with food simulant, followed by Gas Chromatography/Mass Spectrometry (GC-MS) analysis.
Testing condition and simulant: Distilled water at 40 °C for 30mins

Test Item	Result [mg/kg]		Maximum Permissible Limit [mg/kg]
	No.4	No.5	
Migration of Acrylonitrile	< 0.01	< 0.01	Not Detected (< 0.01mg/kg)
Migration of 1,3-butadiene	< 0.01	< 0.01	Not Detected (< 0.01mg/kg)

Note:
1. "°C" denotes degree Celsius.
2. "mg/kg" denotes milligram per kilogram foodstuff.
3. "<" denotes less than.
4. The specification was quoted from Regulation (EC) No. 1935/2004.

7. PEROXIDE VALUE

Test method: With reference to European Pharmacoepia, 1997, p.173.

Test Item	Result		Limit	Conclusion
	No.4	No.5		
Peroxide value	Absent	Absent	Absent	Comply

Note:
1. The specification was quoted from Recommendation of the BfR "Kunststoffe im Lebensmittelverkehr Part XV and Part VI.

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8. VOLATILE ORGANIC COMPONENTS TEST

Test Method: With reference to 48th Communication on the testing of plastics, Bundesgesundheitsblatt 25 (1982) 334.

Test Item	Unit	Test condition	Result		Limit
			No.4	No.5	
Volatile Organic Components	mg/dm^2	30mins at 40°C	<10	<10	15

Note:

1. "<" = Less than.
2. "mg/dm^2" denotes milligram per square decimeter.
3. The specification was quoted from Recommendation of the BfR "Kunststoffe im Lebensmittelverkehr Part VI "Styrene Copolymers and Graft Polymers, and Mixtures of Polystyrene with other Polymers".

Description for sample:

No.1：Stainless steel 430
No.2：Nickel plating of carbon steel
No.3：Aluminum
No.4：Pink ABS
No.5：Natural color ABS
No.6：Yellow EVA

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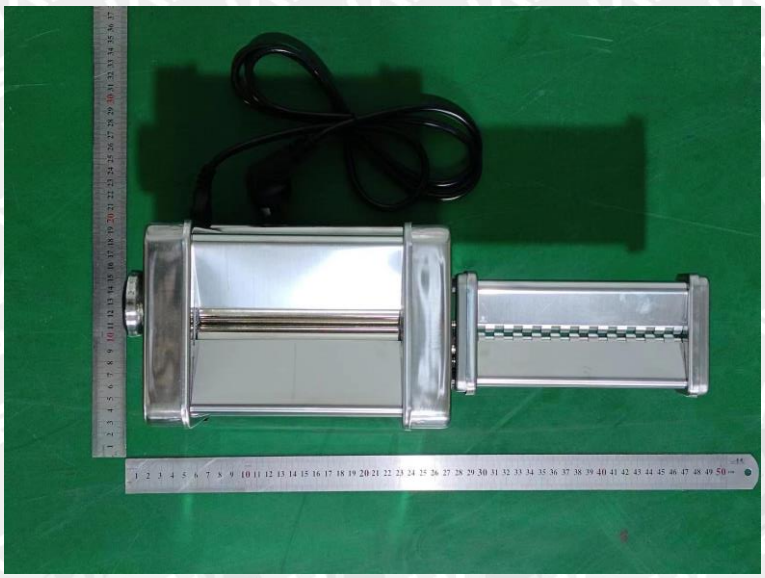
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Sample Photo：



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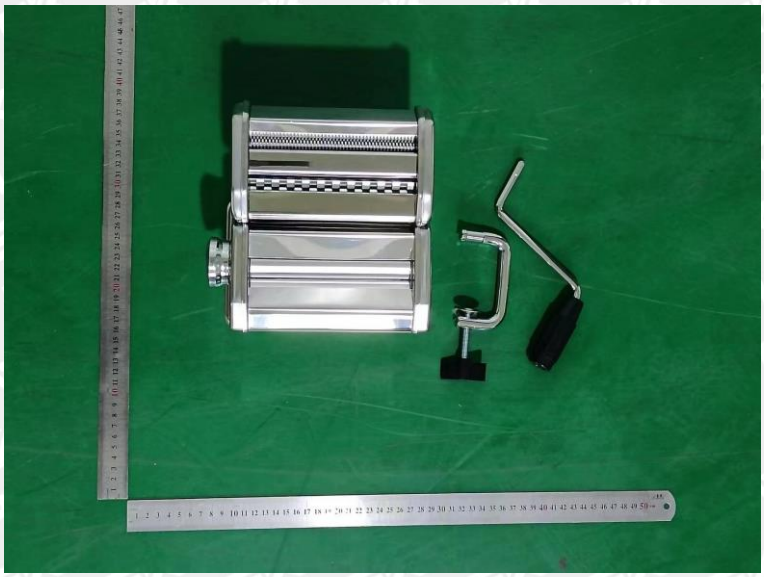




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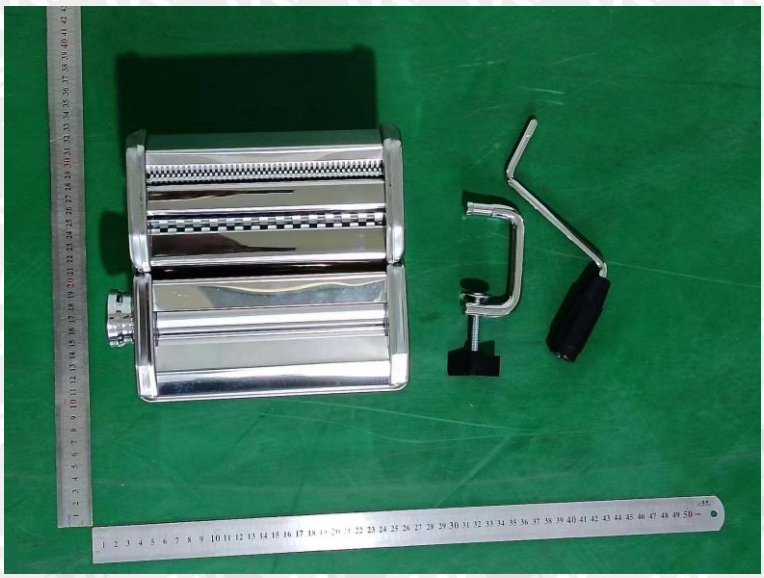
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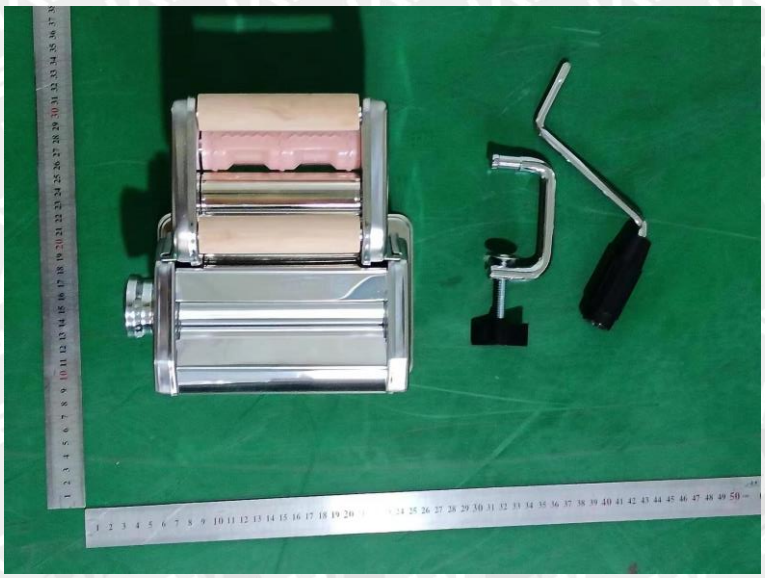
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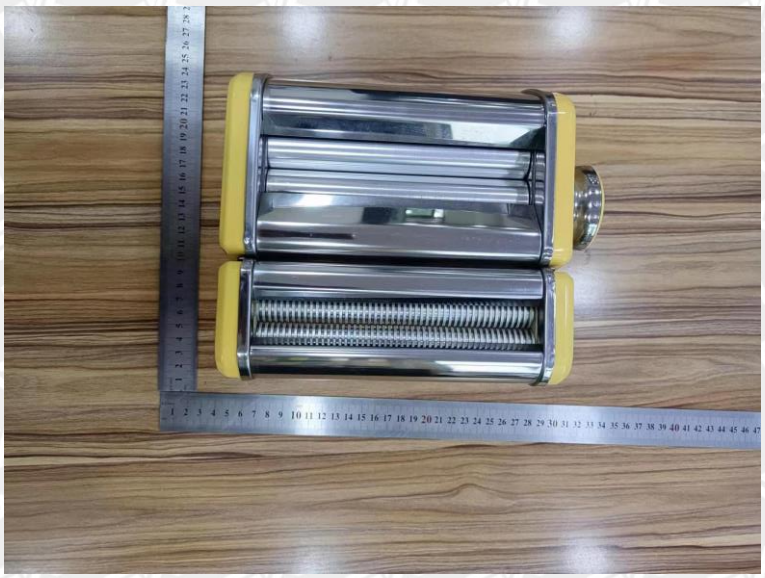




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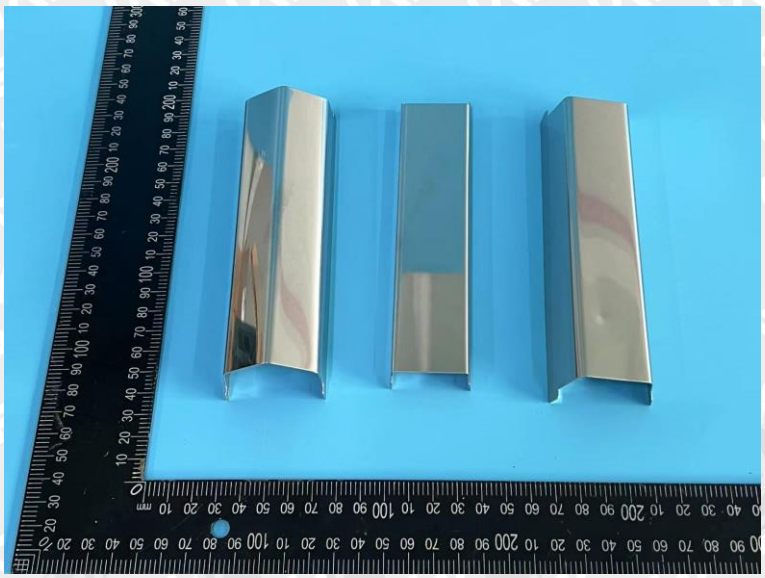
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No.1



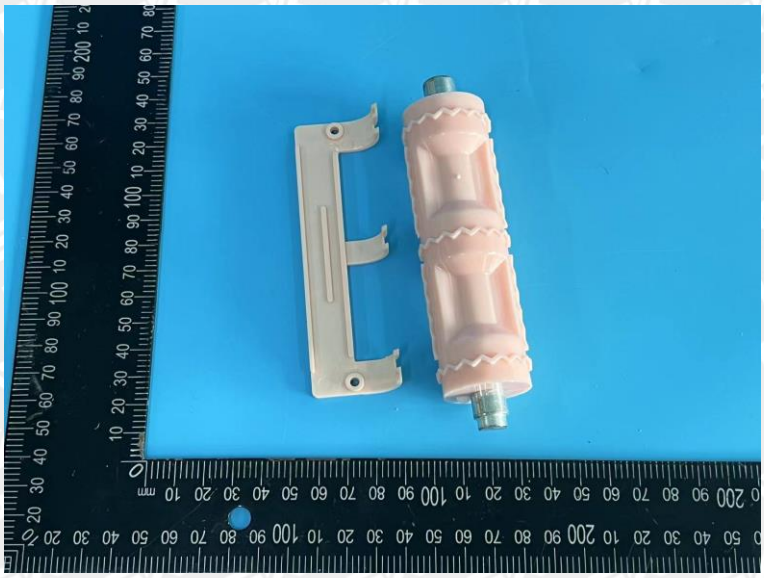
No.2

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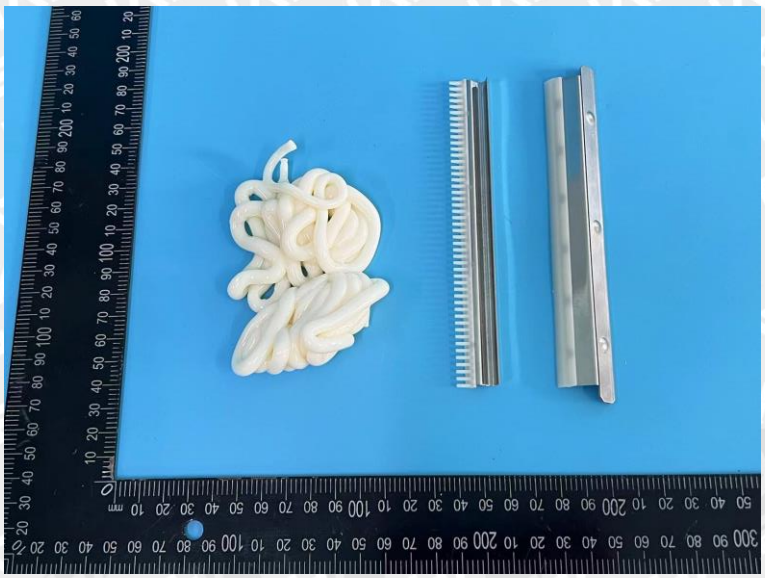
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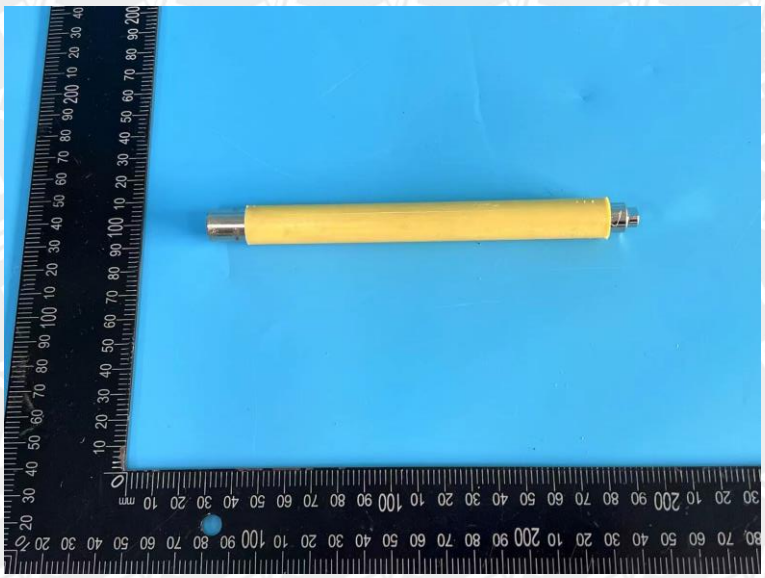
No.4

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No.5



No.6

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