



Test Report

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No. : DP24100168

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Applicant (Code: 08317901) : Yuyao City Createklat Plastic Products Factory
No. 1609 Bingmasi Road, Yuyao City, Zhejiang Province

Description of Sample(s) : Sample(s) received is/ are stated to be:
Cookie press mold
cookie cutter
Manufacturer: Yuyao City Createklat Plastic Products Factory
No. 1609 Bingmasi Road, Yuyao City, Zhejiang Province

Date Sample(s) Received : 2024-10-03

Date Tested : 2024-10-03 to 2024-10-11

Investigation Requested : Please refer to result summary on next page

Conclusion(s) : Please refer to result summary on next page

A handwritten signature in blue ink, appearing to read 'Yan Liang, Sky'.

Yan Liang, Sky
Authorized Signatory



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Result Summary:

No.	Test Requested	Conclusion	Remark
1	Polycyclic aromatic hydrocarbons (PAHs) content according to AfPS and ProdSG	PASS	-
2	Sensory test (odour and taste) for materials in contact with foodstuffs - EC No. 1935/2004	PASS	-
3	Overall migration - EC No. 1935/2004 & EU No.10/2011 on plastic materials and articles intended to come into contact with food and it's amended regulation (EU) 2020/1245	PASS	-
4	Visible colour migration for materials in contact with foodstuffs – Resolution AP (89) 1 on the use of colourants in plastic materials coming into contact with food	PASS	-
5	Specific migration of heavy metals - EC No. 1935/2004 & EU No.10/2011 on plastic materials and articles intended to come into contact with food and it's amended regulation (EU) 2020/1245	PASS	-

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RESULT(S):

POLYCYCLIC AROMATIC HYDROCARBONS (PAHS) CONTENT ACCORDING TO AFPS AND PRODSG

Method Used: AfPS GS 2019:01 PAK, solvent extraction and analyzed by Gas Chromatograph Mass Spectrometer.

Sample Identity	Item/ Component Description	Style
1	Light purple plastic (pp)	-

Parameter	Category 1(unit:mg/kg)	Category 2(unit:mg/kg)		Category 3(unit:mg/kg)	
	Materials intended to be put in the mouth, or materials in toys according to Directive 2009/48/EC or materials in articles for used by children up to three years with long-term skin contact (longer than 30 second) under intended use	Materials not covered by category 1, with long-term skin contact (longer than 30 seconds) or repeated short-term skin contact under intended or foreseeable use	2A: Used by children	2B: Other consumer products	3A: Used by children
Benzo[a]pyrene, BaP	<0.2	<0.2	<0.5	<0.5	<1
Benzo[e]pyrene	<0.2	<0.2	<0.5	<0.5	<1
Benzo[a]anthracene	<0.2	<0.2	<0.5	<0.5	<1
Benzo[b]fluoranthene	<0.2	<0.2	<0.5	<0.5	<1
Benzo[j]fluoranthene	<0.2	<0.2	<0.5	<0.5	<1
Benzo[k]fluoranthene	<0.2	<0.2	<0.5	<0.5	<1
Chrysene	<0.2	<0.2	<0.5	<0.5	<1
Dibenzo[a,h]anthracene	<0.2	<0.2	<0.5	<0.5	<1
Benzo(g,h,i)perylene	<0.2	<0.2	<0.5	<0.5	<1
Indeno(1,2,3-c,d)pyrene	<0.2	<0.2	<0.5	<0.5	<1
Naphthalene	<1	<2		<10	
Phenanthrene Pyrene Anthracene Fluoranthene	<1	<5	<10	<20	<50

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Sum of 4 PAHs					
Sum of 15 PAHs	<1	<5	<10	<20	<50

		Result (mg/ kg)
-	-	1
Tested Item(s)	-	1
Category	-	1
Name of PAHs	CAS No.	-
Phenanthrene	85-01-8	ND
Anthracene	120-12-7	ND
Fluoranthene	206-44-0	ND
Pyrene	129-00-0	ND
Sum of above 4 PAHs	-	ND
Benzo (a) anthracene	56-55-3	ND
Chrysene	218-01-9	ND
Benzo (a) pyrene	50-32-8	ND
Benzo I pyrene	192-97-2	ND
Dibenzo (a,h) anthracene	53-70-3	ND
Benzo (b) fluoranthene	205-99-2	ND
Benzo (j) fluoranthene	205-82-3	ND
Benzo (k) fluoranthene	207-08-9	ND
Naphthalene	91-20-3	ND
Indeno (1,2,3-cd) pyrene	193-39-5	ND
Benzo (g,h,i) perylene	191-24-2	ND
Sum of above 15 PAHs	-	ND
Conclusion	-	Pass

Note(s):

- ND = Not Detected
- Method detection limit: 0.2 mg/kg
- mg/kg = milligram(s) per kilogram = ppm = part(s) per million
- Conc. = Concentration



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SENSORY TEST (ODOUR AND TASTE) FOR MATERIALS IN CONTACT WITH FOODSTUFFS - EC NO. 1935/2004

Method Used: DIN 10955:2023, in water at 40°C for 0.5 hour

Sample Identity	Item/ Component Description	Style
1	Light purple plastic (pp)	-

Maximum Allowable Limit :	Shall not be greater than 2.5 scale
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Test Item(s)	Result (scale)
	1
Odour	0
Taste in distilled water	0
Conclusion	Pass

Note(s):

- scale 0 = No perception off-odour;
- scale 1 = Off-odour just perceptible (still difficult to define)
- scale 2 = Moderation off-odour;
- scale 3 = Moderately strong off-odour;
- scale 4 = Strong off-odour;

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OVERALL MIGRATION - EC NO. 1935/2004 & EU NO.10/2011 ON PLASTIC MATERIALS AND ARTICLES INTENDED TO COME INTO CONTACT WITH FOOD AND IT'S AMENDED REGULATION (EU) 2020/1245

Method Used: Ref. EN 1186-1:2002 & EN 1186-2:2022 &EN 1186-3:2022,

- overall migration in 95%(v/v) ethanol at 40°C for 0.5 hour

- overall migration in Isooctane at 20°C for 0.5 hour

Sample Identity	Colour / Component	Style
1	Light purple plastic (pp)	-

Maximum Allowable Limit	10 mg/dm ² (each food or food simulants) or 60 mg/kg for infants and young children (each food or food simulants)
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Test Item(s)	Results (mg/dm ²)			Conclusion
	1			
	1 st migration	2 nd migration	3 rd migration	
Overall migration in 95%(v/v) ethanol	ND	ND	ND	Pass
Overall migration in Isooctane	ND	ND	ND	

Note(s):

- Method detected limit:
2.0 mg/dm² for aqueous food simulants
3.0 mg/dm² for fatty foods simulants
- ND = Not Detected
- mg/dm² = milligram per square decimetre

Remark(s):

- # according to the EU 2020/1245, for repeated use materials and articles, the third migration result should be less than 10 mg/dm² and the material must be stability, the result of 1st migration > 2nd migration > 3rd migration as stability.

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**VISIBLE COLOUR MIGRATION FOR MATERIALS IN CONTACT WITH FOODSTUFFS –
RESOLUTION AP (89) 1 ON THE USE OF COLOURANTS IN PLASTIC MATERIALS
COMING INTO CONTACT WITH FOOD**

Method Used: AP (89)1:1989

Sample Item(s)	Item / Component Description	Style
1	Light purple plastic (pp)	-

Maximum Allowable Limit:	no visible of colour migration
--------------------------	--------------------------------

Test Item(s)	Results
	1
Colour migration in distilled water	No
Colour migration in 3%(w/v) acetic acid	No
Colour migration in 15%(v/v) ethanol	No
Colour migration in coconut oil	No
Conclusion	Pass

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SPECIFIC MIGRATION OF HEAVY METALS - EC NO. 1935/2004 & EU NO.10/2011 ON PLASTIC MATERIALS AND ARTICLES INTENDED TO COME INTO CONTACT WITH FOOD AND (EU) 2020/1245

Method Used: Extracted the sample in 3%(w/v) acetic acid at 40°C for 0.5 hour, analyzed by ICP-MS

Sample Identity	Colour / Component	Style
1	Light purple plastic (pp)	-

-	Unit	Result			-	MDL
		1				
Test Item(s)	-	1 st Migration	2 nd Migration	3 rd Migration	Maximum Allowable Limit	
Aluminium(Al)	mg/kg	ND	ND	ND	1	0.1
Antimony(Sb)	mg/kg	ND	ND	ND	0.04	0.01
Arsenic(As)	mg/kg	ND	ND	ND	ND (LOD 0.01)	0.01
Barium(Ba)	mg/kg	ND	ND	ND	1	0.1
Cadmium(Cd)	mg/kg	ND	ND	ND	ND (LOD0.002)	0.002
Chromium(Cr)	mg/kg	ND	ND	ND	ND (LOD 0.01)*	0.01
Cobalt(Co)	mg/kg	ND	ND	ND	0.05	0.01
Copper(Cu)	mg/kg	ND	ND	ND	5	0.5
Europium (Eu)	mg/kg	ND	ND	ND	0.05#	0.01
Gadolinium (Gd)	mg/kg	ND	ND	ND	0.05#	0.01
Iron(Fe)	mg/kg	ND	ND	ND	48	10
Lanthanum (La)	mg/kg	ND	ND	ND	0.05#	0.01
Lead(Pb)	mg/kg	ND	ND	ND	ND (LOD 0.01)	0.01
Lithium(Li)	mg/kg	ND	ND	ND	0.6	0.01
Manganese(Mn)	mg/kg	ND	ND	ND	0.6	0.01
Mercury(Hg)	mg/kg	ND	ND	ND	ND (LOD 0.01)	0.01
Nickel(Ni)	mg/kg	ND	ND	ND	0.02	0.01
Terbium (Tb)	mg/kg	ND	ND	ND	0.05#	0.01
Zinc(Zn)	mg/kg	ND	ND	ND	5	1
Conclusion	-	Pass			-	-

Note(s):
 - ND = Not Detected
 - MDL = Method Detected Limit
 - mg/kg = milligram(s) per kilogram = ppm = part(s) per million

Remark(s):
 - *To verify compliance with the Regulation, the detection limit of 0.01 mg/kg shall apply for total chromium. However if the operator that placed the material on the market can prove on the basis of pre-existing documentary evidence that the presence of hexavalent chromium in the material is excluded because it is not used or formed or during the entire production process, a limit for the total chromium of 3.6 mg/kg food shall apply.
 - #The sum of all lanthanide substances migrating to the food or food simulant does not exceed the

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specific migration limit of 0.05 mg/kg;
-## according to the EU 2020/1245, for repeated use materials and articles, the material must be stability, the result of 1st migration > 2nd migration > 3rd migration as stability.

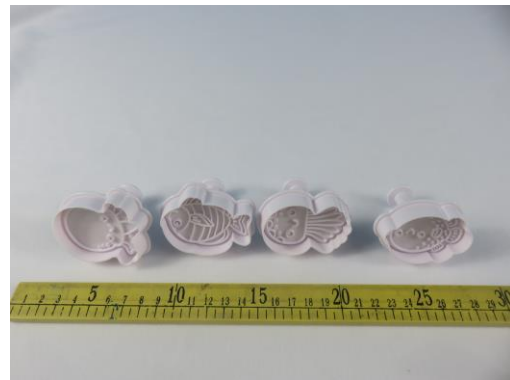
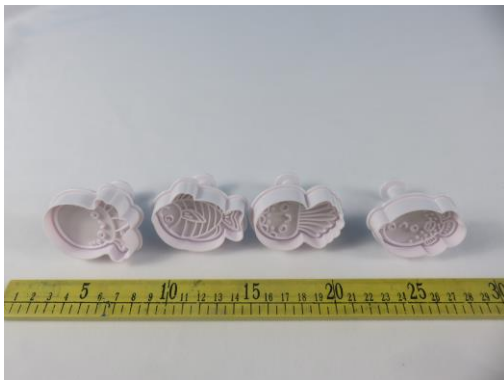
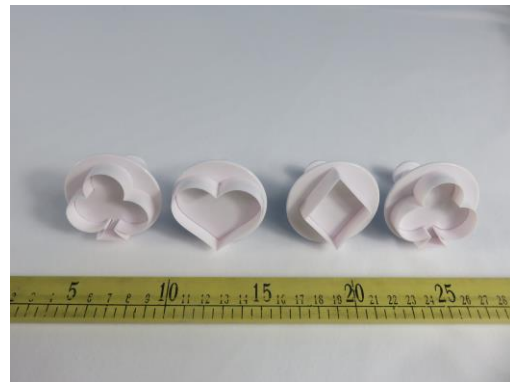
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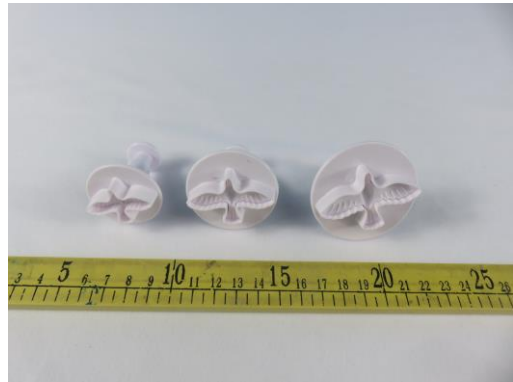
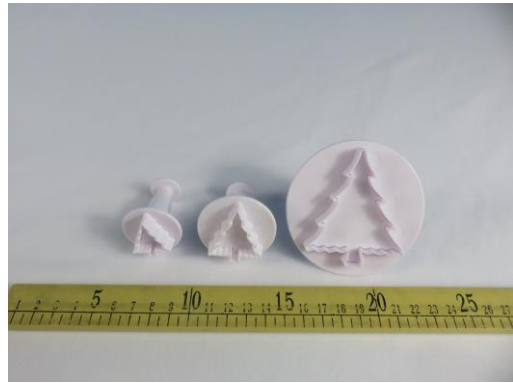
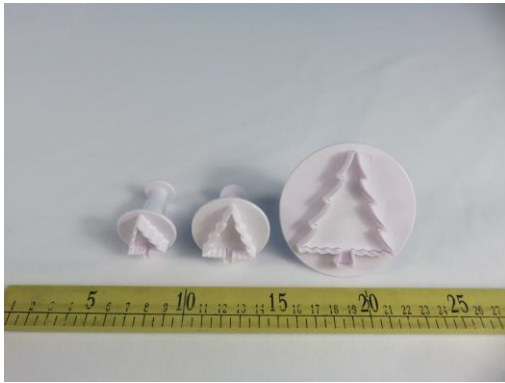
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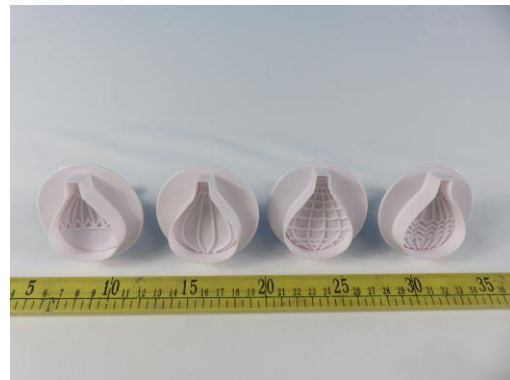
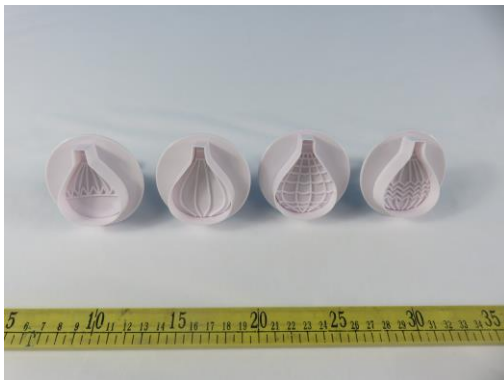
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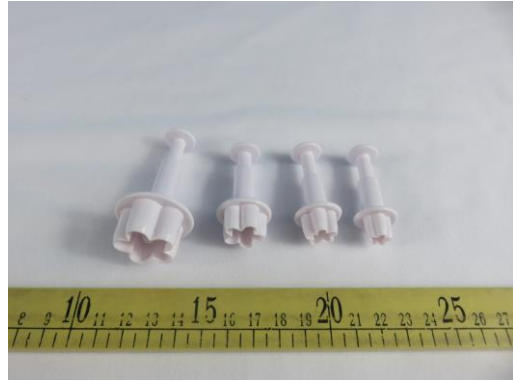
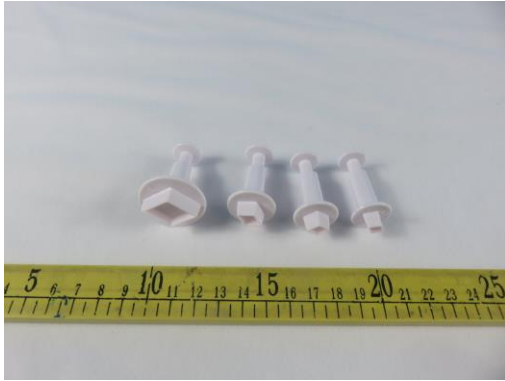
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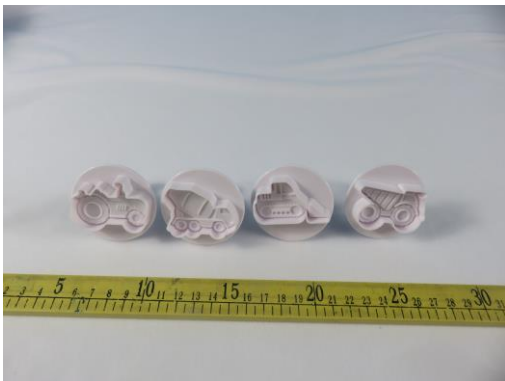
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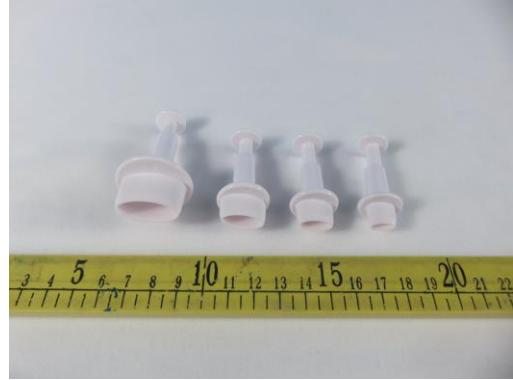
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