

Test Report

Applicant: ANHUI HONYI INTERNATIONAL CORP.
Address: B-2106, BUSINESS BLDG., WOYE GARDEN, GANQUAN RD., SHUSHAN DISTRICT, HEFEI, CHINA

Report on the submitted sample(s) said to be:

Sample Name: POM DISCONNECTORS
Trade Mark: KEGLAND
Sample Description: Please refer to the following page(s).
Sample model: KL07030
Sample Model No.: KL08730, KL21036, KL14441, KL13864, KL13871, KL21012, KL13888, KL14601, KL18449, KL18753, KL21029, KL04329, KL29438, KL02967, KL02974, KL02943, KL02950, KL22859

Sample Received Date: May 08, 2023
Testing Period: May 08, 2023 ~ May 15, 2023

Test Requested: As specified by client, with reference to Commission Regulation (EU) No. 10/2011 and Amendment (EU) 2016/1416 of 24 August 2016 on plastic materials and articles intended to come into contact with food.
For material: Plastics –
Overall migration test
Specific Migration of Metal
Specific Migration of Primary Aromatic Amines Test
Specific migration of phthalate
Phthalate

Test Method: Please refer to the following page(s).

Test Result: Please refer to the following page(s).

Checked by

Vivian Liang

Signed for and on behalf of BORY

Usher Kuang
Laboratory Manager

Test Report

No.	Sample Description	Material (Claimed by the client)
01	POM DISCONNECTORS BODY	POM

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1. Overall migration test (For material: Plastics)

Test Method: With reference to EN 1186-1:2002 for selection of conditions and test methods;
EN 1186-3:2022 evaporable simulants method.

Conclusion: As per Commission Regulation (EU) No. 10/2011 and Amendment (EU) 2016/1416 of
24 August 2016 on plastic materials and articles intended to come into contact with
food.

Test Results:

Simulant used	Test condition/ Equipment	MDL (mg/dm ²)	Result (mg/dm ²)	Maximum Permissible Limit (mg/dm ²)
			01	
10% (v/v) ethanol	40°C, 10d ICP-OES	3.0	N.D.	10

Note: 1. mg/dm²= milligram per square decimeter
2. °C = degree Celsius
3. < = less than.

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2. Specific Migration of Metal (For material: Plastics)

Test Method: With reference to EN13130-1:2004, analysis was performed by ICP-OES

Conclusion: As per commission regulation (EU) NO. 10/ 2011 of 14 January 2011 and Amendment (EU) 2016/1416 of 24 August 2016 on plastic materials and articles intended to come into contact with food.

Test Results:

Test Item	Test condition/ Equipment	MDL (mg/kg)	Result (mg/kg)	Maximum Permissible Limit (mg/kg)
			01	
Barium (Ba)	3% Acetic Acid (W/V) , 40°C, 10d ICP-OES	0.25	N.D.	1
Cobalt (Co)		0.01	N.D.	0.05
Copper (Cu)		0.25	N.D.	5
Iron (Fe)		0.25	N.D.	48
Lithium (Li)		0.5	N.D.	0.6
Manganese (Mn)		0.25	N.D.	0.6
Zinc (Zn)		0.5	N.D.	5
Aluminum (Al)		0.1	N.D.	1
Nickel (Ni)		0.01	N.D.	0.02
Conclusion		/	Pass	/

- Note:
1. mg/kg = milligram per kilogram of foodstuff in contact with
 2. N.D. = Not Detected (< MDL)
 3. MDL = Method Detection Limit

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3. Specific Migration of Primary Aromatic Amines Test (For material: Plastics)

Test Method: Sample preparation with reference to EN 13130-1: 2004 with selection of simulant and condition, followed by analysis by UV.

Conclusion: As per Commission Regulation (EU) No. 10/2011 and Amendment (EU) 2016/1416 of 24 August 2016 on testing the migration of primary aromatic amines from polyamide kitchenware and of formaldehyde from melamine kitchenware

Test Results:

Simulant used	Test condition/ Equipment	MDL (mg/kg)	Result (mg/kg)	Maximum Permissible Limit (mg/kg)
			01	
3% (w/v) acetic acid	40°C, 10d UV	0.01	N.D.	0.01

Note: 1. mg/kg = milligram per kilogram of foodstuff in contact with

2. °C = degree Celsius

3. < = less than.

4. Specific migration of phthalate (For material: Plastics)

Test Method: With reference to EN13130-1:2004, analysis was performed by GC-MS

Conclusion: As per commission regulation (EU) NO. 10/ 2011 of 14 January 2011 and Amendment (EU) 2016/1416 of 24 August 2016 on plastic materials and articles intended to come into contact with food.

Test Results:

Simulant Used: 95% Ethanol (V/M) Aqueous Solution

Test Condition: 40°C 2.0hr(s)

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Test Item	CAS No.	MDL (mg/kg)	Result (mg/kg)	Maximum Permissible Limit (mg/kg)
			01	
Area/volume		-	1.0	--
Benzylbutyl Phthalate (BBP)	85-68-7	--	N.D.	30
Dibutyl Phthalate (DBP)	84-74-2	0.05	N.D.	0.3
Di (2-ethylhexy) Phthalate (DEHP)	117-81-7	0.05	N.D.	1.5
Disononyl phthalate + Disodecyl phthalate (DINP+DIDP)	68515-48-0 and 26761-40-0	0.2	N.D.	9
Diallyl Phthalate (DAP)	131-17-9	0.01	N.D.	0.01
Conclusion	/	/	Pass	/

Note: 1. mg/kg = milligram per kilogram of foodstuff in contact with

2. N.D. = Not Detected (< MDL)

3. MDL = Method Detection Limit

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5. Phthalate (For material: Plastics)

Test Method: Solvent extraction, analysis was performed by GC-MS.

Conclusion: As per commission regulation (EU) NO. 10/ 2011 of 14 January 2011 and Amendment (EU) 2016/1416 of 24 August 2016 on plastic materials and articles intended to come into contact with food.

Test Results:

Test Item	CAS No.	MDL (mg/kg)	Result (mg/kg)	Maximum Permissible Limit (mg/kg)
			01	
Dibutyl Phthalate (DBP)	84-74-2	0.03	N.D.	0.05
Benzylbutyl Phthalate (BBP)	85-68-7	0.03	N.D.	0.1
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	0.03	N.D.	0.1
Diisononyl Phthalate (DINP)	28553-12-0/68515-48-0	0.01	N.D.	0.1
Diisodecyl Phthalate (DIDP)	2676 1-40-0/68515-49-1	0.01	N.D.	0.1
Conclusion	/	/	Pass	/

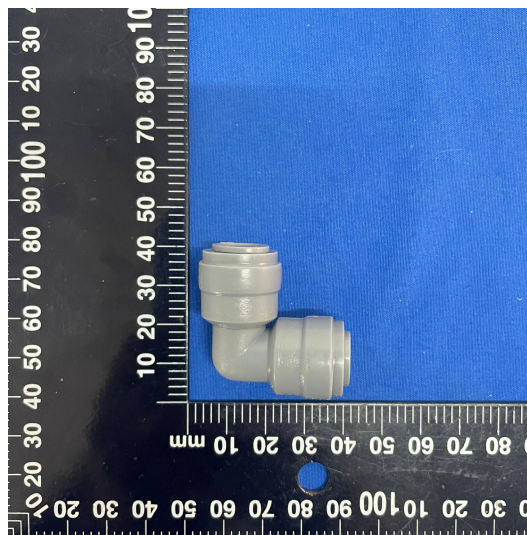
Note: 1. mg/kg = milligram per kilogram of foodstuff in contact with

2. N.D. = Not Detected (< MDL)

3. MDL = Method Detection Limit

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The photo of the sample



***End ***

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