

# Test Report

Applicant: ANHUI HONYI INTERNATIONAL CORP.  
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**Report on the submitted sample(s) said to be:**

Sample Name: EVA BARRIER&DISCONNECTORS

Trade Mark: 

Sample Description: Please refer to the following page(s).

Sample model: KL06224

Sample Model No.: KL06231, KL06248, KL25331, KL10917, KL10924, KL10931, KL10887, KL10894, KL10900, KL06873, KL18142, KL11143, KL23924, KL02370, KL02387, KL02400, KL24631, KL07016, KL07023, KL07030, KL06880, KL11037, KL08730, KL06897, KL14595, KL06903, KL18067, KL18456, KL21036, KL06910, KL14441, KL13864, KL13871, KL14564, KL18432, KL21012, KL13888, KL06927, KL06934, KL07474, KL07375, KL06941, KL07481, KL24624, KL06958, KL06965, KL08853, KL07047, KL07498, KL08648, KL09393, KL26710, KL27953, KL27960, KL14038, KL14045, KL14052, KL21944, KL14601, KL18449, KL18753, KL21029, KL21951, KL21968, KL21678, KL21517, KL21937, KL02417, KL25911, KL25928, KL25935, KL02943, KL02950, KL02967, KL02974, KL22859, KL24235, KL24242, KL20749, KL20756, KL20763, KL20770, KL21418, KL27212, KL37266, KL25768, KL25294, KL25300, KL43304, KL25294, KL25300, KL18012, KL41485

Sample Received Date: Mar. 16, 2023

Testing Period: Mar. 16, 2023, ~ Mar. 30, 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

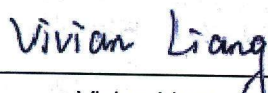
Specific migration of phthalate

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	EVA BARRIER	EVA
02	DISCONNECTORS	POK

## 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 <sup>2</sup> )	Result (mg/dm <sup>2</sup> )		Maximum Permissible Limit (mg/dm <sup>2</sup> )
			01	02	
10% (v/v) ethanol	70°C, 2h ICP-OES	3.0	N.D.	N.D.	10
3% (w/v) acetic acid		3.0	N.D.	N.D.	10
20% ethanol		3.0	N.D.	N.D.	10

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

Simulant used	Test condition/ Equipment	MDL (mg/dm <sup>2</sup> )	Result (mg/dm <sup>2</sup> )		Maximum Permissible Limit (mg/dm <sup>2</sup> )
			01	02	
10% (v/v) ethanol	70°C, 2h ICP-OES	3.0	N.D.	N.D.	10
3% (w/v) acetic acid		3.0	N.D.	N.D.	10
20% ethanol		3.0	N.D.	N.D.	10

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

# Test Report

## 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	02	
Barium (Ba)	3% Acetic Acid (W/V) Aqueous Solution,  70°C, 2h ICP-OES	0.25	N.D.	N.D.	1
Cobalt (Co)		0.01	N.D.	N.D.	0.05
Copper (Cu)		0.25	N.D.	N.D.	5
Iron (Fe)		0.25	N.D.	N.D.	48
Lithium (Li)		0.5	N.D.	N.D.	0.6
Manganese (Mn)		0.25	N.D.	N.D.	0.6
Zinc (Zn)		0.5	N.D.	N.D.	5
Aluminum (Al)		0.1	N.D.	N.D.	1
Nickel (Ni)		0.01	N.D.	N.D.	0.02
<b>Conclusion</b>		/	Pass	Pass	/

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

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

3. MDL = Method Detection Limit

# Test Report

## 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	02	
3% (w/v) acetic acid	70°C, 2h UV	0.01	N.D.	N.D.	0.0100

Note: 1. mg/kg = milligram per kilogram of foodstuff in contact with  
2. °C = degree Celsius  
3. < = less than.

## Test Report

### 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)

Test Item	CAS No.	MDL (mg/kg)	Result (mg/kg)		Maximum Permissible Limit (mg/kg)
			01	02	
Area/volume		-	2.0	2.0	--
Benzylbutyl Phthalate (BBP)	85-68-7	--	N.D.	N.D.	30
Dibutyl Phthalate (DBP)	84-74-2	0.05	N.D.	N.D.	0.3
Di (2-ethylhexy) Phthalate (DEHP)	117-81-7	0.05	N.D.	N.D.	1.5
Disononyl phthalate + Disodecyl phthalate (DINP+DIDP)	68515-48-0 and 26761-40-0	0.2	N.D.	N.D.	9
Diallyl Phthalate (DAP)	131-17-9	0.01	N.D.	N.D.	0.01
<b>Conclusion</b>	/	/	Pass	Pass	/

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

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

3. MDL = Method Detection Limit

## Test Report

### 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	02	
Dibutyl Phthalate (DBP)	84-74-2	0.03	N.D.	2.0	0.05
Benzylbutyl Phthalate (BBP)	85-68-7	0.03	N.D.	N.D.	0.1
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	0.03	N.D.	N.D.	0.1
Diisononyl Phthalate (DINP)	28553-12-0/68515-48-0	0.01	N.D.	N.D.	0.1
Diisodecyl Phthalate (DIDP)	2676 1-40-0/68515-49-1	0.01	N.D.	N.D.	0.1
<b>Conclusion</b>	/	/	Pass	N.D.	/

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

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

3. MDL = Method Detection Limit

## Test Report

The photo of the sample



\*\*\*End \*\*\*

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