

Test Report No. SHAHG2202177301 Date: 18 Feb 2022 Page 1 of 12

Client Name: VI-TAMIX CORPORATION

Client Address: 8615 USHER ROAD, CLEVELAND, OHIO 44138 USA

Sample Name: VM0136 CONTAINERS & ASY-1 BLADE ASSEMBLIES

The above sample(s) and information were provided by the client.

SGS Job No.: SHHL2202005534CW - SH

Date of Sample Received: 10 Feb 2022

Testing Period : 10 Feb 2022 - 18 Feb 2022

Test Requested: Selected test(s) as requested by client.

Test Method: Please refer to next page(s).

Test Results: Please refer to next page(s).

Result Summary:

Test Requested	Conclusion
(EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation-Overall migration	PASS
Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004-Sensorial examination odour and taste test	PASS
(EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation -Specific migration of heavy metal*	PASS
(EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation-Specific migration of primary aromatic amine (total)*	PASS
(EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation-Specific migration of 2,2,4,4-Tetramethyl-1,3-cyclobutanediol(TMCD)*	PASS
Europe Resolution CM/Res(2013)9-Extractable heavy metals*	PASS

Signed for and on behalf of

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Lucia Lin

Lucia Liu

Approved Signatory



SHAHG220217730



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Test Results:

Test Part Description:

Specimen No.	SGS Sample ID	Description	Material
			(claimed by the client)
SN1	SHA22-021773.001	Transparent blue plastic container	Tritan
SN2	SHA22-021773.002	Silvery stainless steel blade	Stainless steel

Remarks:

- (1) mg/dm² = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C= degree Celsius
- (4) < = less than
- (5) MDL = Method Detection Limit
- (6) ND = Not Detected (< MDL)

(EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation-Overall migration

Test Method: With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and

Annex V for selection of condition and EN 1186-1:2002 for selection of test methods;

EN 1186-2: 2002 olive oil by total immersion method;

EN 1186-3: 2002 aqueous food simulants by total immersion method.

Simulant Used	<u>Time</u>	<u>Temperature</u>	Max. Permissible	Result of 001	Conclusion
			<u>Limit</u>	Overall migration	
3% Acetic acid (W/V) aqueous solution (Third migration)	2.0hr(s)	70°C	10mg/dm²	<3.0mg/dm ²	PASS
3% Acetic acid (W/V) aqueous solution (Second migration)	2.0hr(s)	70°C	-	<3.0mg/dm²	
3% Acetic acid (W/V) aqueous solution (First migration)	2.0hr(s)	70°C	-	<3.0mg/dm²	
Stability			-		YES
20% Ethanol (V/V) Aqueous Solution (Third migration)	2.0hr(s)	70°C	10mg/dm²	<3.0mg/dm²	PASS
20% Ethanol (V/V) Aqueous Solution (Second migration)	2.0hr(s)	70°C	-	<3.0mg/dm²	
20% Ethanol (V/V) Aqueous Solution (First migration)	2.0hr(s)	70°C	-	<3.0mg/dm²	



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Stability			-		YES	
Rectified olive oil (Third time)	2.0hr(s)	70°C	10mg/dm²	<3.0mg/dm²	PASS	
Rectified olive oil (Second time)	2.0hr(s)	70°C	-	<3.0mg/dm²		
Rectified olive oil (First migration)	2.0hr(s)	70°C	-	<3.0mg/dm²		
Stability			-		YES	

Notes:

- (1) Analytical tolerance of aqueous simulants is 2 mg/dm² or 12 mg/kg.
- (2) Analytical tolerance of fatty food simulants is 3 mg/dm² or 20mg/kg.
- (3) Test condition & simulant were specified by client.

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004-Sensorial examination odour and taste test

With reference to DIN 10955: 2004 Test Method:

No. of panelist: 6

Test Item(s)	<u>Limit</u>	<u>001</u>	<u>002</u>
Test media	-	DW	DW
Test time (hr(s))	-	0.5	0.5
Temperature(°C)	-	70	70
Sensorial examination odour (Point scale)	2.5	0	0
Sensorial examination taste (Point scale)	2.5	0	0
Conclusion		PASS	PASS

Notes:

Scale evaluation:

0 – no perceptible difference

1 – just perceptible difference

2 - slight difference

3 - marked difference

4 - strong difference

DW= Distilled water



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(EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation -Specific migration of heavy metal*

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

Sample 001

Simulant Used: 3% Acetic acid (W/V) aqueous solution

Test Condition: 70 °C 0.5 hr(s)

Test Item(s)	Max. Permissible	<u>Unit</u>	<u>MDL</u>	Test result
	<u>Limit</u>			
Migration times	-	-	-	First
Area/volume	-	dm²/kg	-	6.0
Arsenic(As)	ND	mg/kg	0.01	ND
Cadmium(Cd)	ND	mg/kg	0.002	ND
Chromium(Cr)	ND	mg/kg	0.01	ND
Mercury(Hg)	ND	mg/kg	0.01	ND
Lead(Pb)	ND	mg/kg	0.01	ND
Aluminium(AI)	-	mg/kg	0.1	ND
Barium(Ba)	-	mg/kg	0.25	ND
Cobalt(Co)	-	mg/kg	0.01	ND
Copper(Cu)	-	mg/kg	0.25	ND
Iron(Fe)	-	mg/kg	5	ND
Lithium(Li)	-	mg/kg	0.1	ND
Manganese(Mn)	-	mg/kg	0.1	ND
Zinc(Zn)	-	mg/kg	0.5	ND
Nickel(Ni)	-	mg/kg	0.01	ND
Antimony(Sb)	-	mg/kg	0.01	ND
Europium (Eu)	-	mg/kg	0.025	ND
Gadolinium(Gd)	-	mg/kg	0.025	ND
Lanthanum(La)	-	mg/kg	0.025	ND
Terbium(Tb)	-	mg/kg	0.025	ND
Europium (Eu)+ Gadolinium(Gd)+ Lanthanum(La)+	-	mg/kg	-	ND
Terbium(Tb)				

Sample 001

Simulant Used: 3% Acetic acid (W/V) aqueous solution

Test Condition: 70 °C 0.5 hr(s)



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Test Item(s)	Max. Permissibl	le <u>Unit</u>	<u>MDL</u>	Test result	
	<u>Limit</u>				
Migration times	-	-	-	Second	
Area/volume	-	dm²/kg	-	6.0	
Arsenic(As)	-	mg/kg	0.01	ND	
Cadmium(Cd)	-	mg/kg	0.002	ND	
Chromium(Cr)	-	mg/kg	0.01	ND	
Mercury(Hg)	-	mg/kg	0.01	ND	
Lead(Pb)	-	mg/kg	0.01	ND	
Aluminium(AI)	-	mg/kg	0.1	ND	
Barium(Ba)	-	mg/kg	0.25	ND	
Cobalt(Co)	-	mg/kg	0.01	ND	
Copper(Cu)	-	mg/kg	0.25	ND	
Iron(Fe)	-	mg/kg	5	ND	
Lithium(Li)	-	mg/kg	0.1	ND	
Manganese(Mn)	-	mg/kg	0.1	ND	
Zinc(Zn)	-	mg/kg	0.5	ND	
Nickel(Ni)	-	mg/kg	0.01	ND	
Antimony(Sb)	-	mg/kg	0.01	ND	
Europium (Eu)	-	mg/kg	0.025	ND	
Gadolinium(Gd)	-	mg/kg	0.025	ND	
Lanthanum(La)	-	mg/kg	0.025	ND	
Terbium(Tb)	-	mg/kg	0.025	ND	
Europium (Eu)+ Gadolinium(Gd)+ Lant	hanum(La)+ -	mg/kg	-	ND	
Terbium(Tb)					

Sample 001

Simulant Used: 3% Acetic acid (W/V) aqueous solution

Test Condition: 70 °C 0.5 hr(s)

Test Item(s)	Max. Permissible	<u>Unit</u>	<u>MDL</u>	Test result
	<u>Limit</u>			
Migration times	-	-	-	Third
Area/volume	-	dm²/kg	-	6.0
Arsenic(As)	ND	mg/kg	0.01	ND
Cadmium(Cd)	ND	mg/kg	0.002	ND
Chromium(Cr)	ND	mg/kg	0.01	ND
Mercury(Hg)	ND	mg/kg	0.01	ND
Lead(Pb)	ND	mg/kg	0.01	ND
Aluminium(Al)	1	mg/kg	0.1	ND



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Barium(Ba)	1	mg/kg	0.25	ND
Cobalt(Co)	0.05	mg/kg	0.01	ND
Copper(Cu)	5	mg/kg	0.25	ND
Iron(Fe)	48	mg/kg	5	ND
Lithium(Li)	0.6	mg/kg	0.1	ND
Manganese(Mn)	0.6	mg/kg	0.1	ND
Zinc(Zn)	5	mg/kg	0.5	ND
Nickel(Ni)	0.02	mg/kg	0.01	ND
Antimony(Sb)	0.04	mg/kg	0.01	ND
Europium (Eu)	-	mg/kg	0.025	ND
Gadolinium(Gd)	-	mg/kg	0.025	ND
Lanthanum(La)	-	mg/kg	0.025	ND
Terbium(Tb)	-	mg/kg	0.025	ND
Europium (Eu)+ Gadolinium(Gd)+ L	anthanum(La)+ 0.05	mg/kg	-	ND
Terbium(Tb)				
Stability	-	-	-	YES
Conclusion				PASS

Notes:

(EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation-Specific migration of primary aromatic amine (total)*

Test Method: With reference to EN 13130-1: 2004, analysis was performed by UV-Vis.

Sample 001

Simulant Used: 3% Acetic acid (W/V) aqueous solution

Test Condition: 70 °C 2.0 hr(s)

Test Item(s)	Max. Permissible	<u>Unit</u>	<u>MDL</u>	Test result
	<u>Limit</u>			
Migration times	-	-	-	First
Area/volume	-	dm²/kg	-	6.0
Specific migration of primary aromatic amine	-	mg/kg	0.002	ND

Sample 001

Simulant Used: 3% Acetic acid (W/V) aqueous solution

70 °C 2.0 hr(s) Test Condition:



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⁽¹⁾ Test condition & simulant were specified by client.



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Test Item(s)	Max. Permissible	<u>Unit</u>	<u>MDL</u>	Test result
	<u>Limit</u>			
Migration times	-	-	-	Second
Area/volume	-	dm²/kg	-	6.0
Specific migration of primary aromatic amine	-	mg/kg	0.002	ND

Sample 001

Simulant Used: 3% Acetic acid (W/V) aqueous solution

Test Condition: 70 °C 2.0 hr(s)

Test Item(s)	Max. Permissible	<u>Unit</u>	<u>MDL</u>	Test result
	<u>Limit</u>			
Migration times	-	-	-	Third
Area/volume	-	dm²/kg	-	6.0
Specific migration of primary aromatic amine	0.01	mg/kg	0.002	ND
Stability	-	-	-	YES
Conclusion				PASS

Notes:

(1) Test condition & simulant were specified by client.

(EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation-Specific migration of 2,2,4,4-Tetramethyl-1,3-cyclobutanediol(TMCD)*

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

Sample 001

Simulant Used: 3% Acetic acid (W/V) aqueous solution

Test Condition: 70 °C 0.5 hr(s)

Test Item(s)	Max. Permissible	<u>Unit</u>	<u>MDL</u>	Test result
	<u>Limit</u>			
Migration times	-	-	-	First
Area/volume	-	dm²/kg	-	6.0
Specific migration of	-	mg/kg	0.5	ND
2 2 4 4-Tetramethyl-1 3-cyclobutanediol(TMCD)				

Sample 001

Simulant Used: 3% Acetic acid (W/V) aqueous solution



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Test Condition: 70 °C 0.5 hr(s)

Test Item(s)	Max. Permissible	<u>Unit</u>	<u>MDL</u>	Test result
	<u>Limit</u>			
Migration times	-	-	-	Second
Area/volume	-	dm²/kg	-	6.0
Specific migration of	-	mg/kg	0.5	ND
2,2,4,4-Tetramethyl-1,3-cyclobutanediol(TMCD)				

Sample 001

Simulant Used: 3% Acetic acid (W/V) aqueous solution

Test Condition: 70 °C 0.5 hr(s)

Test Item(s)	Max. Permissible	<u>Unit</u>	<u>MDL</u>	Test result	
	<u>Limit</u>				
Migration times	-	-	-	Third	
Area/volume	-	dm²/kg	-	6.0	
Specific migration of	5	mg/kg	0.5	ND	
2,2,4,4-Tetramethyl-1,3-cyclobutanediol(TMCD)					
Stability	-	-	-	YES	
Conclusion				PASS	

Notes:

(1) Test condition & simulant were specified by client.

Europe Resolution CM/Res(2013)9-Extractable heavy metals*

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

Sample 002: PASS

Simulant Used: 0.5% Citric acid (W/V) aqueous solution

Test Condition: 70 °C 0.5 hr(s) Area/Volume: 6.0 dm²/kg

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	1st + 2nd Migration
Aluminium(Al)	35	mg/kg	0.2	ND
Antimony(Sb)	0.28	mg/kg	0.02	ND
Chromium(Cr)	1.750	mg/kg	0.100	ND
Cobalt(Co)	0.14	mg/kg	0.01	ND
Copper(Cu)	28	mg/kg	0.1	ND
Iron(Fe)	280	mg/kg	0.25	0.70
Manganese(Mn)	12.6	mg/kg	0.25	ND
Molybdenum(Mo)	0.84	mg/kg	0.02	ND



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Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	1st + 2nd Migration		
Nickel(Ni)	0.98	mg/kg	0.05	ND		
Silver(Ag)	0.56	mg/kg	0.03	ND		
Tin (Sn)	700	mg/kg	5	ND		
Vanadium(V)	0.07	mg/kg	0.005	ND		
Zinc(Zn)	35	mg/kg	1	ND		
Arsenic(As)	0.014	mg/kg	0.001	ND		
Barium(Ba)	8.4	mg/kg	0.25	ND		
Beryllium(Be)	0.07	mg/kg	0.005	ND		
Cadmium(Cd)	0.035	mg/kg	0.002	ND		
Lead(Pb)	0.070	mg/kg	0.005	ND		
Lithium(Li)	0.336	mg/kg	0.02	ND		
Mercury(Hg)	0.021	mg/kg	0.002	ND		
Thallium(TI)	0.0007	mg/kg	0.0001	ND		
Magnesium(Mg)	-	mg/kg	5	ND		
Titanium(Ti)	-	mg/kg	0.05	ND		
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	3rd Migration		
Aluminium(Al)	5	mg/kg	0.2	ND		
Antimony(Sb)	0.04	mg/kg	0.02	ND		
Chromium(Cr)	0.250	mg/kg	0.100	ND		
Cobalt(Co)	0.02	mg/kg	0.01	ND		
Copper(Cu)	4	mg/kg	0.1	ND		
Iron(Fe)	40	mg/kg	0.25	ND		
Manganese(Mn)	1.8	mg/kg	0.25	ND		
Molybdenum(Mo)	0.12	mg/kg	0.02	ND		
Nickel(Ni)	0.14	mg/kg	0.05	ND		
Silver(Ag)	0.08	mg/kg	0.03	ND		
Tin (Sn)	100	mg/kg	5	ND		
Vanadium(V)	0.01	mg/kg	0.005	ND		
Zinc(Zn)	5	mg/kg	1	ND		
Arsenic(As)	0.002	mg/kg	0.001	ND		
Barium(Ba)	1.2	mg/kg	0.25	ND		
Beryllium(Be)	0.01	mg/kg	0.005	ND		
Cadmium(Cd)	0.005	mg/kg	0.002	ND		
Lead(Pb)	0.010	mg/kg	0.005	ND		
Lithium(Li)	0.048	mg/kg	0.02	ND		
Mercury(Hg)	0.003	mg/kg	0.002	ND		
Thallium(TI)	0.0001	mg/kg	0.0001	ND		
Magnesium(Mg)	-	mg/kg	5	ND		
Titanium(Ti)	-	mg/kg	0.05	ND		
Notes :						

Notes:

(1) Test condition & simulant were specified by client.



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(2) Requirement for repeat use article: According to Council of Europe Resolution CM/Res(2013)9, the result from 3rd migration shall comply with the Specific Release Limit (SRL) and the sum of 1st and 2nd migration shall not exceed seven times of SRL for repeated use articles

Remark: Test item marked"*" in this report are not included in CNAS Accredited Scope for our laboratory.



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Sample photo:







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*** End of Report ***



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