



TEST REPORT

Report No. GR:HL:1552001469

ISSUE DATE: 23-Jul-2024



PRISTINE MELAMINE LLP

S.NO. 183, AT POST NAVAGAM,

VILLAGE: KATHWADE

INDIA

CONTACT PERSON: NILESH PATEL

THE FOLLOWING SAMPLE(S) WAS/WERE SUBMITTED AND IDENTIFIED BY/ON BEHALF OF THE CUSTOMER AS :

SAMPLE DESCRIPTION PML MELAMINE PLATE

LAB PROVIDED DETAILS:

CONDITION OF SAMPLE COMPLETE AND OK

THE LOCATION OF PERFORMANCE OF THE LABORATORY ACTIVITIES:

SGS GURUGRAM LABORATORY- OVERALL MIGRATION, SPECIFIC MIGRATION OF PRIMARY AROMATIC AMINE, SPECIFIC MIGRATION OF HEAVY METALS, OVERALL MIGRATION (TENAX), SPECIFIC MIGRATION OF FORMALDEHYDE, SPECIFIC MIGRATION OF MELAMINE, BISPHENOL A (BPA) CONTENT

SGS CHENNAI LABORATORY- SPECIFIC MIGRATION OF MELAMINE

SAMPLE RECD ON 28-Jun-2024 TESTING PERIOD : 01-Jul-2024 - 23-Jul-2024

SUMMARY OF TEST RESULT:

TESTS	PASS	FAIL	REMARKS
1.TESTING AS PER COMMISSION REGULATION (EU) NO 10/2011	--		
a) OVERALL MIGRATION	P		
b) SPECIFIC MIGRATION OF PRIMARY AROMATIC AMINE	P		
c) SPECIFIC MIGRATION OF HEAVY METALS	P		
d) OVERALL MIGRATION (TENAX)	P		
e) SPECIFIC MIGRATION OF FORMALDEHYDE	P		
f) SPECIFIC MIGRATION OF MELAMINE	P		
2. BISPHENOL A (BPA) CONTENT			SEE RESULT

Note: NABL symbol is published only on the page/s having accredited parameters.**Remarks:** P= Pass

F= Fail

TEST(S) RESULT & METHOD: PLEASE REFER TO NEXT PAGE(S). RESULTS APPLY TO THE SAMPLE AS RECEIVED

Per Pro SGS India Pvt. Ltd.

YOGESH JOSHI (Manager-RSTS)

Authorized Signatory-Chemical

Email your Test Report Related Enquiries at Feedback.HLT@sgs.com



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ACCREDITED TEST(S)

1. TESTING AS PER COMMISSION REGULATION (EU) NO. 10/2011:

a) OVERALL MIGRATION:

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. (1st +2nd +3rd Migration); EN 1186-3:2022, test method for overall migration in evaporable simulant.

Simulant Used	Test Condition	Result (mg/dm ²)			Reporting Limit (mg/dm ²)	Permissible Limit (mg/dm ²)
		1 st Migration	2 nd Migration	3 rd Migration		
3% Acetic Acid	70°C for 02 Hours	Not Detected	Not Detected	Not Detected	2	10
10% Ethanol	70°C for 02 Hours	Not Detected	Not Detected	Not Detected	2	10
Stability [^]	--	Yes			--	--
Conclusion	--	Pass			--	--

Tested Item : Melamine Plate

Method: EN 1186-2:2022, test method for overall migration in vegetable oils.

Simulant Used	Test Condition	Result (mg/dm ²)			Reporting Limit (mg/dm ²)	Permissible Limit (mg/dm ²)
		1 st Migration	2 nd Migration	3 rd Migration		
Olive Oil	70°C for 02 Hours	Not Detected	Not Detected	Not Detected	3	10
Stability [^]	--	Yes			--	--
Conclusion	--	Pass			--	--

Tested Item : Melamine Plate

Note :-

- mg/dm² = milligram per square decimeter.
- °C = degree Celsius.
- Permissible Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.
- ^ = Stability trend is based on the result of the material from first to third migration test as per described in Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex V for repeated use articles.
- The compliance is based on the stability trend and 3rd migration result.
- Analytical tolerance of aqueous simulants is 2mg/dm².
- Test condition & simulant were specified by customer.

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NON ACCREDITED TEST(S)

b) SPECIFIC MIGRATION OF PRIMARY AROMATIC AMINE:

Method: With reference to EN 13130-1:2004; Analysis was done by Uv-vis spectrophotometer (Total Screening).

Simulant Used: 3% Acetic Acid

Test Condition: 70°C for 02 Hours (3rd Migration)

Test Item	Result (mg/kg)			Detection Limit (mg/kg)	Permissible Limit (mg/kg)
	1 st Migration	2 nd Migration	3 rd Migration		
Specific migration of Primary Aromatic Amine	Not Detected	Not Detected	Not Detected	0.002	0.01
Stability [^]	Yes			--	--
Conclusion	Pass			--	--

Tested Item : Melamine Plate

Note :

1. mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius.
3. Permissible Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with its amendment .
4. Test condition & simulant were specified by the customer.
5. [^] = Stability trend is based on the result of the material from first to third migration test as per described in Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex V for repeated use articles.
6. The compliance is based on the stability trend and 3rd migration result.

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NON ACCREDITED TEST(S)

c) SPECIFIC MIGRATION OF HEAVY METALS:-

Method: With reference to EN 13130-1:2004, Analysis was performed by ICP-MS.

Simulant Used: 3% Acetic Acid (w/v) in aqueous solution.

Test Condition: 70°C for 02 Hours (1st + 2nd + 3rd Migration)

Test Item	Result (mg/kg)			Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
	1 st Migration	2 nd Migration	3 rd Migration		
Specific Migration of Aluminium	Not Detected	Not Detected	Not Detected	0.1	1
Specific Migration of Antimony	Not Detected	Not Detected	Not Detected	0.01	0.04
Specific Migration of Arsenic	Not Detected	Not Detected	Not Detected	0.01	0.01
Specific Migration of Barium	Not Detected	Not Detected	Not Detected	0.25	1
Specific Migration of Cadmium	Not Detected	Not Detected	Not Detected	0.002	0.002
Specific Migration of Chromium	Not Detected	Not Detected	Not Detected	0.01	0.01
Specific Migration of Cobalt	Not Detected	Not Detected	Not Detected	0.01	0.05
Specific Migration of Copper	Not Detected	Not Detected	Not Detected	0.25	5
Specific Migration of Iron	Not Detected	Not Detected	Not Detected	0.25	48
Specific Migration of Lead	Not Detected	Not Detected	Not Detected	0.01	0.01
Specific Migration of Lithium	Not Detected	Not Detected	Not Detected	0.5	0.6
Specific Migration of Manganese	Not Detected	Not Detected	Not Detected	0.25	0.6
Specific Migration of Mercury	Not Detected	Not Detected	Not Detected	0.01	0.01
Specific Migration of Nickel	Not Detected	Not Detected	Not Detected	0.01	0.02
Specific Migration of Zinc	Not Detected	Not Detected	Not Detected	0.5	5
Specific Migration of Europium	Not Detected	Not Detected	Not Detected	0.01	0.05
Specific Migration of Gadolinium	Not Detected	Not Detected	Not Detected	0.01	
Specific Migration of Lanthanum	Not Detected	Not Detected	Not Detected	0.01	
Specific Migration of Terbium	Not Detected	Not Detected	Not Detected	0.01	
Stability [^]	Yes			--	--
Conclusion	Pass			--	--

Tested Item : Melamine Plate

Note:

1. mg/kg= milligram per kilogram of foodstuff in contact with
2. ^ = Stability trend is based on the result of the material from first to third migration test as per described in Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex V for repeated use articles.
3. The compliance is based on the stability trend and 3rd migration result.
4. Permissible Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 and amendment EU 2020/1245 of January 11, 20214.
5. Test condition simulant&test elements were specified by customer.
6. Test has been sub-contracted to ISO/IEC 17025 accredited laboratory.

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NON ACCREDITED TEST(S)

d) OVERALL MIGRATION (TENAX):

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. (1st+2nd +3rd Migration);
With reference to BS EN 1186-13:2002.

Simulant Used	Test Condition	Result (mg/dm ²)			Reporting Limit (mg/dm ²)	Permissible Limit (mg/dm ²)
		1 st Migration	2 nd Migration	3 rd Migration		
Tenax	70°C for 02 Hours	Not Detected	Not Detected	Not Detected	2	10
Stability [^]	--	Yes			--	--
Conclusion	--	Pass			--	--

Tested Item : Melamine Plate

Note :-

- mg/dm² = milligram per square decimeter.
- °C = degree Celsius.
- Permissible Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.
- [^] = Stability trend is based on the result of the material from first to third migration test as per described in Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex V for repeated use articles.
- The compliance is based on the stability trend and 3rd migration result.
- Analytical tolerance of aqueous simulants is 2mg/dm².
- Test condition & simulant were specified by customer.

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NON ACCREDITED TEST(S)

e) SPECIFIC MIGRATION OF FORMALDEHYDE:-

Method: With reference to EN 13130-1:2004. And CEN/TS 13130-23:2005 and EU JRC guideline EUR 24815 EU22011
Analysis was performed by UV-vis Spectrophotometer.

Simulant Used: 3% Acetic Acid (w/v) in aqueous solution

Test Condition: 70°C for 02 Hours (1st + 2nd + 3rd Migration);

Test Item	Result (mg/kg)			Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
	1 st Migration	2 nd Migration	3 rd Migration		
Specific migration of Formaldehyde	Not Detected	Not Detected	Not Detected	3.0	15
Stability [^]	Yes			--	--
Conclusion	Pass			--	--

Tested Item : Melamine Plate

Note :

- mg/kg = milligram per kilogram of foodstuff in contact with
- °C = degree Celsius
- ^ = Stability trend is based on the result of the material from first to third migration test as per described in Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex V for repeated use articles.
- The compliance is based on the stability trend and 3rd migration result.
- Permissible Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.
- Test condition & simulant were specified by the customer.

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NON ACCREDITED TEST(S)

f) SPECIFIC MIGRATION OF MELAMINE:-

Method: With reference to EN 13130-1:2004 and CEN/TS 13130-27:2005. Analysis was performed by HPLC-DAD / HPLC-MS.

Simulant Used: 3% Acetic Acid (w/v) in aqueous solution

Test Condition: 70°C for 02 Hours (1st + 2nd + 3rd Migration);

Test Item	Result (mg/kg)			Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
	1 st Migration	2 nd Migration	3 rd Migration		
Specific migration of Melamine	Not Detected	Not Detected	Not Detected	2.0	2.5
Stability [^]	Yes			--	--
Conclusion	Pass			--	--

Tested Item : Melamine Plate

Note :

- mg/kg = milligram per kilogram of foodstuff in contact with
- °C = degree Celsius
- ^ = Stability trend is based on the result of the material from first to third migration test as per described in Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex V for repeated use articles.
- The compliance is based on the stability trend and 3rd migration result.
- Permissible Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments
- Test condition & simulant were specified by the customer.
- Test has been sub-contracted to ISO/IEC 17025 accredited laboratory.

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NON ACCREDITED TEST(S)

2.BISPHENOL A (BPA) CONTENT:**Method:** Solvent Extraction and Analysis by LC/MS.

Test Name	Test Result (mg/kg)	Requirement
Bisphenol A (BPA) Content	Not Detected	/

Detection Limit: 0.1 mg/kg

Tested Item : Melamine Plate**Note:**

- mg/kg = milligram per kilogram
- Above all testing has been performed as per customer request.

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Sample as Received



*****END OF REPORT*****

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