

TEST REPORT

NUMBER : DELH23002634-C
DATE : 20TH MAR, 2023



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AUTHORIZED BY
FOR INTERTEK INDIA PVT. LTD.

Kamal Sardhana

KAMAL SARDHANA
ASST. MANAGER - HARDLINE

Testing Remark: Test results have been incorporated from report no. DELH23002634 as per applicant's request.



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TEST CONDUCTED:

1. TOTAL LEAD CONTENT:

Test Regulation: EC No. 1907/2006 (REACH) And Its Amendments, Annex XVII, Entry 63

Method: Analysis Was Performed By ICP-MS/AAS

Tested Component	Test Result (ppm)	Requirement
Submitted Sample	COMPLIES Natural plastic: <10 ppm	500 ppm

Detection Limit: 10 ppm

2. TOTAL CADMIUM CONTENT:

Test Regulation: EC No. 1907/2006 (REACH) And Its Amendments, Annex XVII, Entry 23

Method: Analysis Was Performed By ICP-OES

Tested Component	Test Result (ppm)	Requirement
Submitted Sample	COMPLIES Natural plastic: <10 ppm	100 ppm

Detection Limit: 10 ppm

3. BISPHENOL-A CONTENT:

Method: By Solvent Extraction Followed By LC-MS/MS.

Tested Sample	Test Result (ppm)	Requirement
Submitted Sample	COMPLIES Not Detected	Shall Not Contain Any Detectable Levels of Bisphenol-A (BPA)

Detection Limit: 0.1 ppm

Tested Item: Natural plastic

4. DISHWASHER SAFE TEST:

Method: As Per Intertek In-House Test Method (M0001-V05)

Test Condition:

Selected Cycle: Normal
Cycle Duration: 120 Minutes
Temperature Condition: 60°C
Detergent Used: Cascade
No. Of cycles: 10 Cycles

Tested Sample	Test Results / Observation	Requirement
Submitted Sample	COMPLIES (No visual change observed)	Shall not show any chipping, cracking, glaze crazing or other visual change in appearance.



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5. OVERALL MIGRATION:

As Per European Commission Regulation (EC) No.1935/2004 and (EU) No. 10/2011, EU 2020/1245- On Plastic Materials and Articles Intended to Come into Contact with Food)

Test Method: With Reference to EN 1186-1:2002 For Selection of Test Condition and Test Method.

Simulant Used	Test Condition	Test Results (mg/dm ²)			Requirement (mg/dm ²)
		1 st Migration	2 nd Migration	3 rd Migration	
10% Ethanol	70°C for 2 Hours	< 5.0	< 5.0	< 5.0	10
3% Acetic Acid	70°C for 2 Hours	< 5.0	< 5.0	< 5.0	10
95% Ethanol	60°C for 2 Hours	< 5.0	< 5.0	< 5.0	10
Iso-Octane	40°C for 30 Minutes	< 5.0	< 5.0	< 5.0	10

Tested Item: Natural Plastic

Note:

Result of 3rd migration < SML, and
Result of 1st migration ≥ 2nd migration ≥ 3rd migration after consideration of result uncertainty.
Result of 1st, 2nd and 3rd migration < SML when SML limit is Not Detected (ND)

6. SPECIFIC MIGRATION OF HEAVY METAL (19 ELEMENTS):

As Per European Commission Regulation (EC) No.1935/2004 and (EU) No.10/2011, EU 2020/1245- On Plastic Materials and Articles Intended to Come into Contact with Food.

Method: With Reference to 13130-1:2004, Analysis Was Performed by ICP-MS/OES.

Simulant Used: 3% Acetic Acid

Test Condition: 70°C for 2 Hours

Test Parameter	Test Result (mg/kg)			Requirement (mg/kg)
	1 st Migration	2 nd Migration	3 rd Migration	
Barium (Ba)	<0.1	<0.1	<0.1	1.0
Aluminum (Al)	<0.1	<0.1	<0.1	1.0
Cobalt (Co)	<0.03	<0.03	<0.03	0.05
Nickel (Ni)	<0.01	<0.01	<0.01	0.02
Copper (Cu)	<1	<1	<1	5.0
Iron (Fe)	<5	<5	<5	48.0
Zinc (Zn)	<1.0	<1.0	<1.0	5.0
Manganese (Mn)	<0.1	<0.1	<0.1	0.6
Lithium (Li)	<0.1	<0.1	<0.1	0.6
Chromium (Cr)	<0.01	<0.01	<0.01	0.01
Antimony (Sb)	<0.01	<0.01	<0.01	0.04
Arsenic (As)	<0.010	<0.010	<0.010	0.01
Cadmium (Cd)	<0.002	<0.002	<0.002	0.002
Lead (Pb)	<0.01	<0.01	<0.01	0.01
Mercury (Hg)	<0.01	<0.01	<0.01	0.01
Europium (Eu)	<0.01	<0.01	<0.01	0.05 (Sum)
Gadolinium (Gd)	<0.01	<0.01	<0.01	
Lanthanum (La)	<0.01	<0.01	<0.01	
Terbium (Tb)	<0.01	<0.01	<0.01	

Tested Item: Natural Plastic

Note:

Result of 3rd migration < SML, and
Result of 1st migration ≥ 2nd migration ≥ 3rd migration after consideration of result uncertainty.
Result of 1st, 2nd and 3rd migration < SML when SML limit is Not Detected (ND)



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END OF TEST REPORT

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