

TEST REPORT

NUMBER : DELH23002636-AK DATE : 06TH APRIL, 2023







APPLICANT: ALL TIME PLASTICS PVT. LTD.

PLOT NO. 377/1 (1&2) & 371/1(C), KACHIGAM CHAR RASTA,

BEHIND STONE QUARRY, DAMAN (U.T.) 396210

ATTN: ZARIR PATEL

SAMPLE DESCRIPTION: POLKA CONTAINER SET 401 - 404 (6800 ML) (4 PC SET)

DATE RECEIVED : 04TH MAR, 2023

TEST PERFORMANCE DATE : 04TH MAR, 2023 TO 05TH APRIL, 2023

BUYER'S NAME : -BUYING AGENT/ CONTACT : -ORDER NO. : --

BAR CODE : 8902084042414 STYLE NO. : HSN CODE: 39241090 COLOR : BLUSH & NATURAL

END USE : -SEASON : -COUNTRY OF ORIGIN : -COUNTRY OF DESTINATION : --

MANUFACTURER'S NAME : ALL TIME PLASTICS PVT. LTD.

TESTS CONDUCTED: AS PER THE REQUEST BY THE APPLICANT.

TOTAL LEAD CONTENT, TOTAL CADMIUM CONTENT, BISPHENOL-A CONTENT, DISHWASHER SAFE TEST, FREEZER SAFE TEST, MICROWAVE SAFE TEST, AIR LEAKAGE TEST, OVERALL MIGRATION,

SPECIFIC MIGRATION OF HEAVY METALS (19 ELEMENTS)

FOR FURTHER DETAILS PLEASE REFER TO THE ENCLOSED PAGE (S).

CONCLUSION:

TESTED SAMPLE	TEST PARAMETERS/STANDARD F		
	TOTAL LEAD CONTENT (With Reference to Regulation (EC) No.1907/2006 (REACH) And Its Amendments, Annex XVII, Entry 63)	М	
	TOTAL CADMIUM CONTENT (With Reference to Regulation (EC) NO.1907/2006 (REACH) And Its Amendments, Annex XVII, Entry 23)	М	
	BISPHENOL-A CONTENT (By Solvent Extraction Followed By LC-MS/MS)	М	
	DISHWASHER SAFE TEST (As Per Intertek In-House Test Method (M0001-V05))		
SUBMITTED SAMPLE	FREEZER SAFE TEST (As Per Intertek In-House Test Method(M0004-V03))	М	
	MICROWAVE SAFE TEST As Per Intertek In-House Test Method (M0002-V02)	М	
	AIR LEAKAGE TEST (As per client's specification)	М	
	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)	М	
	SPECIFIC MIGRATION OF HEAVY METALS (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.)	М	

NOTE: M = MEET REQUIREMENT F = DO NOT MEET REQUIREMENT

= NO SPECIFIED REQUIREMENT N/A = NOT APPLICABLE

Note:

1.Statement of conformity is based on the Simple acceptance rule without using measurement uncertainty.

2.Laboratory reports the final test results in test report. Any additional information, if required will be provided on request.



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Fax: 0124-4303592



AUTHORIZED BY FOR INTERTEK INDIA PVT. LTD.

KAMAL SARDHANA

ASST. MANAGER - HARDLINE

Testing Remark: Test results have been incorporated from report no. DELH23002636 as per applicant's request.





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
	COMPLIES	
Submitted Sample	Natural Plastic: <10 ppm	500 ppm
	Blush Plastic: <10 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
	COMPLIES	
Submitted Sample	Natural Plastic: <10 ppm	100 ppm
	Blush Plastic: <10 ppm	

Detection Limit: 10 ppm

3.BISPHENOL-A CONTENT:

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

Tested Sample	Test Result (ppm) (1 & 2)	Requirement
Culturalities Communic	COMPLIES	Shall Not Contain Any Detectable Levels of
Submitted Sample	Not Detected	Bisphenol-A (BPA)

Detection Limit: 0.1 ppm

Tested Item:

1.Natural plastic 2.Blush 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: 05 Cycles

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

Tested Item: Natural Container



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5.FREEZER SAFE TEST:

Method: As Per Intertek In-House Test Method (M0004-V03)

Test Condition:

Temperature of freezer: -18°F Exposure period: 24 Hours

Exposure period: En ribare		
Tested Sample	Test Results / Observation	Requirement
	COMPLIES	No discoloration, cracking, crazing,
Submitted Sample	(No discoloration, cracking, crazing, chipping, permanent	chipping, permanent deformation,
	deformation observed & No functionality loss observed)	No functionality loss

Tested Item: Natural Container

6.MICROWAVE SAFE TEST:

Method: As Per Intertek In-House Test Method (M0002-V02)

No of cycles: 06 Cycles

Tested Sample	Test Results / Observation	Requirement
	COMPLIES	
Submitted Sample	(No any chipping, cracking, crazing or	No any chipping, cracking, crazing or other change
Submitted Sample	other change from the original state is	from the original state is rated as failure
	rated as failure observed)	

Tested Item: Natural Container

7.AIR LEAKAGE TEST:

Method: As per client's specification

Duration	Test Results		Client's Beguirement
Duration	A1	A2	Client's Requirement
DAY- 0	289.037	290.048	
DAY- 1	290.058	291.057	X < 0.10%
DAY- 2	291.041	292.032	100% Air-Tight
DAY- 3	292.048	293.071	0.10% ≤ x ≤0.60%
DAY- 4	293.066	294.063	Can be Air-Tight
DAY- 5	294.059	295.051	
<u>D5 – D0</u> D0	0.02%	0.02%	X > 0.60% Not Air Tight
<u>Rating</u>	100% Air-Tight	100% Air-Tight	

<u>Tested Item:</u> Natural Container

A1-As received sample A2- After dishwashing



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8.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.

Oimendant Haad	Took Condition	Test Results (mg/dm²) (1 & 2)		De avrino me ant (me a (day 2)	
Simulant Used	Test Condition	1 st Migration	2 nd Migration	3 rd Migration	Requirement (mg/dm²)
10% Ethanol	100°C for 2 Hours	< 5.0	< 5.0	< 5.0	10
3% Acetic Acid	100°C for 2 Hours	< 5.0	< 5.0	< 5.0	10
95% Ethanol	60°C for 3.5 Hours	< 5.0	< 5.0	< 5.0	10
Iso-Octane	60°C for 1.5 Hours	< 5.0	< 5.0	< 5.0	10

Tested Item:

1.Natural plastic

2.Blush 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)





9.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: 100°C for 2 Hours

Test Parameter	neter Test Result (mg/kg) (1 & 2)							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					
Gadolinium (Gd)	<0.01	<0.01	<0.01					
Lanthanum (La)	<0.01	<0.01	<0.01	0.05 (Sum)				
Terbium (Tb)	<0.01	<0.01	<0.01	1				

Tested Item:

1.Natural plastic

2.Blush 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)

END OF TEST REPORT

This report is made solely based on your instructions and/or information and materials supplied by you. It is not intended to be a recommendation for any course of action. Intertek does not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as is expressly contained in the terms and conditions governing Intertek's provision of services to you. Intertek makes no warranties or representations either express or implied with respect to this report save as provided for in those terms and conditions. We have aimed to conduct the Review on a diligent and careful basis, and we do not accept any liability to you for any loss arising out of or in connection with this report, in contract, tort, by statute or otherwise, except in the event of our gross negligence or willful misconduct.

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TEST REPORT

NUMBER : DELH23002923-AK DATE : 06TH APRIL, 2023







APPLICANT: ALL TIME PLASTICS PVT. LTD.

PLOT NO. 377/1 (1&2) & 371/1(C), KACHIGAM CHAR RASTA,

BEHIND STONE QUARRY, DAMAN (U.T.) 396210

ATTN: ZARIR PATEL

SAMPLE DESCRIPTION: POLKA CONTAINER SET 401 - 404 (6800 ML) (4 PC SET)

DATE RECEIVED : 11TH MAR, 2023

TEST PERFORMANCE DATE : 11TH MAR, 2023 TO 05TH APRIL, 2023

BUYER'S NAME : -BUYING AGENT/ CONTACT : -ORDER NO. : --

BAR CODE : 8902084042414 STYLE NO. : HSN CODE: 39241090 COLOR : NATURAL AND MOONLIGHT

END USE : -SEASON : -COUNTRY OF ORIGIN : -COUNTRY OF DESTINATION : --

MANUFACTURER'S NAME : ALL TIME PLASTICS PVT. LTD.

TESTS CONDUCTED: AS PER THE REQUEST BY THE APPLICANT.

TOTAL LEAD CONTENT, TOTAL CADMIUM CONTENT, BISPHENOL-A CONTENT, DISHWASHER SAFE TEST, FREEZER SAFE TEST, MICROWAVE SAFE TEST, AIR LEAKAGE TEST, OVERALL MIGRATION,

SPECIFIC MIGRATION OF HEAVY METALS (19 ELEMENTS)

FOR FURTHER DETAILS PLEASE REFER TO THE ENCLOSED PAGE (S).

CONCLUSION:

TESTED SAMPLE	TEST PARAMETERS/STANDARD		
	TOTAL LEAD CONTENT (With Reference to Regulation (EC) No.1907/2006 (REACH) And Its Amendments, Annex XVII, Entry 63)	М	
	TOTAL CADMIUM CONTENT (With Reference to Regulation (EC) NO.1907/2006 (REACH) And Its Amendments, Annex XVII, Entry 23)	М	
	BISPHENOL-A CONTENT (By Solvent Extraction Followed By LC-MS/MS)	М	
	DISHWASHER SAFE TEST (As Per Intertek In-House Test Method (M0001-V05))		
SUBMITTED SAMPLE	FREEZER SAFE TEST (As Per Intertek In-House Test Method(M0004-V03))	М	
	MICROWAVE SAFE TEST As Per Intertek In-House Test Method (M0002-V02)	М	
	AIR LEAKAGE TEST (As per client's specification)	М	
	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)	М	
	SPECIFIC MIGRATION OF HEAVY METALS (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.)	M	

NOTE: M = MEET REQUIREMENT F = DO NOT MEET REQUIREMENT

= NO SPECIFIED REQUIREMENT N/A = NOT APPLICABLE

Note:

1.Statement of conformity is based on the Simple acceptance rule without using measurement uncertainty.

2.Laboratory reports the final test results in test report. Any additional information, if required will be provided on request.



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KAMAL SARDHANA

ASST. MANAGER - HARDLINE

Testing Remark: Test results have been incorporated from report no. DELH23002923 as per applicant's request.





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

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Tested Component Test Result (ppm)		Requirement		
	COMPLIES			
Submitted Sample	Natural Plastic: <10 ppm	500 ppm		
	Moonlight Plastic: <10 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	Component Test Result (ppm) Requirement	
	COMPLIES	
Submitted Sample	Natural Plastic: <10 ppm	100 ppm
	Moonlight Plastic: <10 ppm	

Detection Limit: 10 ppm

3.BISPHENOL-A CONTENT:

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

Tested Sample	Test Result (ppm) (1 & 2)	Requirement
Culturalities Communic	COMPLIES	Shall Not Contain Any Detectable Levels of
Submitted Sample	Not Detected	Bisphenol-A (BPA)

Detection Limit: 0.1 ppm

Tested Item:

1.Natural plastic

2.Moonlight 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: 05 Cycles

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

Tested Item: Natural plastic





5.FREEZER SAFE TEST:

Method: As Per Intertek In-House Test Method (M0004-V03)

Test Condition:

Temperature of freezer: -18°F Exposure period: 24 Hours

Exposure period: 24 Hours		
Tested Sample	Test Results / Observation	Requirement
	COMPLIES	No discoloration, cracking, crazing,
Submitted Sample	(No discoloration, cracking, crazing, chipping, permanent	chipping, permanent deformation,
	deformation observed & No functionality loss observed)	No functionality loss

Tested Item: Natural plastic

6.MICROWAVE SAFE TEST:

Method: As Per Intertek In-House Test Method (M0002-V02)

No of cycles: 06 Cycles

Tested Sample	Test Results / Observation	Requirement
Submitted Sample	(No any chipping, cracking, crazing or other change from the original state is rated as failure observed)	No any chipping, cracking, crazing or other change from the original state is rated as failure

Tested Item: Natural plastic

7.AIR LEAKAGE TEST:

Method: As per client's specification

Duration	Test Res	sults	Client's Requirement
Duration	A1	A2	Chefit's Requirement
DAY- 0	128.034	129.041	
DAY- 1	129.051	130.029	X < 0.10%
DAY- 2	130.072	131.011	100% Air-Tight
DAY- 3	131.091	132.021	0.10% ≤ x ≤0.60%
DAY- 4	132.191	133.011	Can be Air-Tight
DAY- 5	133.111	134.026	
<u>D5 – D0</u> D0	0.03%	0.04%	X > 0.60% Not Air Tight
Rating	100% Air-Tight	100% Air-Tight	-

Tested Item: Natural plastic

A1-As received sample A2- After dishwashing





8.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.

		Test Results (mg/dm²)			
Simulant Used	Test Condition		(1 & 2)		Requirement (mg/dm²)
		1st Migration	2 nd Migration	3 rd Migration	
10% Ethanol	100°C for 2 Hours	< 5.0	< 5.0	< 5.0	10
3% Acetic Acid	100°C for 2 Hours	< 5.0	< 5.0	< 5.0	10
95% Ethanol	60°C for 3.5 Hours	< 5.0	< 5.0	< 5.0	10
Iso-Octane	60°C for 1.5 Hours	< 5.0	< 5.0	< 5.0	10

Tested Item:

- 1.Natural plastic
- 2.Moonlight 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)





9.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: 100°C for 2 Hours

Test Parameter		Test Result (mg/kg) (1 & 2)			
	1 st Migration	2 nd Migration	3 rd Migration		
Barium (Ba)	<0.1	<0.1	<0.1	1.0	
Aluminum (AI)	<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		
Gadolinium (Gd)	<0.01	<0.01	<0.01		
Lanthanum (La)	<0.01	<0.01	<0.01	0.05 (Sum)	
Terbium (Tb)	<0.01	<0.01	<0.01		

Tested Item:

- 1.Natural plastic
- 2.Moonlight 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)

END OF TEST REPORT

This report is made solely based on your instructions and/or information and materials supplied by you. It is not intended to be a recommendation for any course of action. Intertek does not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as is expressly contained in the terms and conditions governing Intertek's provision of services to you. Intertek makes no warranties or representations either express or implied with respect to this report save as provided for in those terms and conditions. We have aimed to conduct the Review on a diligent and careful basis, and we do not accept any liability to you for any loss arising out of or in connection with this report, in contract, tort, by statute or otherwise, except in the event of our gross negligence or willful misconduct.

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TEST REPORT

NUMBER : DELH23002922-AF DATE : 06TH APRIL, 2023







APPLICANT: ALL TIME PLASTICS PVT. LTD.

PLOT NO. 377/1 (1&2) & 371/1(C), KACHIGAM CHAR RASTA,

BEHIND STONE QUARRY, DAMAN (U.T.) 396210

ATTN: ZARIR PATEL

SAMPLE DESCRIPTION: POLKA CONTAINER SET 401 - 404 (6800 ML) (4 PC SET)

DATE RECEIVED : 11TH MAR, 2023

TEST PERFORMANCE DATE : 11TH MAR, 2023 TO 05TH APRIL, 2023

BUYER'S NAME : -BUYING AGENT/ CONTACT : -ORDER NO. : --

BAR CODE : 8902084042414 STYLE NO. : HSN CODE: 39241090 COLOR : NATURAL AND INDIGO

END USE : -SEASON : -COUNTRY OF ORIGIN : -COUNTRY OF DESTINATION : --

MANUFACTURER'S NAME : ALL TIME PLASTICS PVT. LTD.

TESTS CONDUCTED: AS PER THE REQUEST BY THE APPLICANT.

TOTAL LEAD CONTENT, TOTAL CADMIUM CONTENT, BISPHENOL-A CONTENT, DISHWASHER SAFE TEST, FREEZER SAFE TEST, MICROWAVE SAFE TEST, AIR LEAKAGE TEST, OVERALL MIGRATION,

SPECIFIC MIGRATION OF HEAVY METALS (19 ELEMENTS)

FOR FURTHER DETAILS PLEASE REFER TO THE ENCLOSED PAGE (S).

CONCLUSION:

TESTED SAMPLE	TEST PARAMETERS/STANDARD	RESULT
	TOTAL LEAD CONTENT (With Reference to Regulation (EC) No.1907/2006 (REACH) And Its Amendments, Annex XVII, Entry 63)	М
	TOTAL CADMIUM CONTENT (With Reference to Regulation (EC) NO.1907/2006 (REACH) And Its Amendments, Annex XVII, Entry 23)	М
	BISPHENOL-A CONTENT (By Solvent Extraction Followed By LC-MS/MS)	М
	DISHWASHER SAFE TEST (As Per Intertek In-House Test Method (M0001-V05))	М
SUBMITTED SAMPLE	FREEZER SAFE TEST (As Per Intertek In-House Test Method(M0004-V03))	M
	MICROWAVE SAFE TEST As Per Intertek In-House Test Method (M0002-V02)	М
	AIR LEAKAGE TEST (As per client's specification)	М
	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)	M
	SPECIFIC MIGRATION OF HEAVY METALS (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.)	М

NOTE: M = MEET REQUIREMENT F = DO NOT MEET REQUIREMENT

= NO SPECIFIED REQUIREMENT N/A = NOT APPLICABLE

Note:

1.Statement of conformity is based on the Simple acceptance rule without using measurement uncertainty.

2.Laboratory reports the final test results in test report. Any additional information, if required will be provided on request.



New Delhi -110044.

Tel: 0124-4503400, Fax: 0124-4303592 www.Intertek.com



AUTHORIZED BY FOR INTERTEK INDIA PVT. LTD.

KAMAL SARDHANA

ASST. MANAGER - HARDLINE

Testing Remark: Test results have been incorporated from report no. DELH23002922 as per applicant's request





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

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Tested Component	Test Result (ppm)	Requirement
	COMPLIES	
Submitted Sample	Natural Plastic: <10 ppm	500 ppm
	Indigo Plastic: <10 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
	COMPLIES	
Submitted Sample	Natural Plastic: <10 ppm	100 ppm
	Indigo Plastic: <10 ppm	

Detection Limit: 10 ppm

3.BISPHENOL-A CONTENT:

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

Tested Sample	Test Result (ppm) (1 & 2)	Requirement
Culturalities Communic	COMPLIES	Shall Not Contain Any Detectable Levels of
Submitted Sample	Not Detected	Bisphenol-A (BPA)

Detection Limit: 0.1 ppm

Tested Item:

1.Natural plastic 2.Indigo 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: 05 Cycles

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

Tested Item: Natural plastic



New Delhi -110044.



5.FREEZER SAFE TEST:

Method: As Per Intertek In-House Test Method (M0004-V03)

Test Condition:

Temperature of freezer: -18°F Exposure period: 24 Hours

Tested Sample	Test Results / Observation	Requirement	
	COMPLIES	No discoloration, cracking, crazing,	
Submitted Sample	(No discoloration, cracking, crazing, chipping, permanent	chipping, permanent deformation,	
	deformation observed & No functionality loss observed)	No functionality loss	

Tested Item: Natural plastic

6.MICROWAVE SAFE TEST:

Method: As Per Intertek In-House Test Method (M0002-V02)

No of cycles: 06 Cycles

Tested Sample	Test Results / Observation	Requirement
Submitted Sample	(No any chipping, cracking, crazing or other change from the original state is rated as failure observed)	No any chipping, cracking, crazing or other change from the original state is rated as failure

Tested Item: Natural plastic

7.AIR LEAKAGE TEST:

Method: As per client's specification

Duration	Test Re	Client's Requirement		
	A1	A2		
DAY- 0	107.032	108.043		
DAY- 1	108.048	109.057	X < 0.10%	
DAY- 2	109.071	110.061	100% Air-Tight	
DAY- 3	110.032	111.027	0.10% ≤ x ≤0.60% Can be Air-Tight X > 0.60% Not Air Tight	
DAY- 4	111.027	112.048		
DAY- 5	112.018	113.032		
<u>D5 – D0</u> D0	0.04%	0.04%		
<u>Rating</u>	100% Air-Tight	100% Air-Tight		

Tested Item: Natural plastic

A1-As received sample A2- After dishwashing





8.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/dm²) (1 & 2)		Requirement (mg/dm²)		
		1 st Migration	2 nd Migration	3 rd Migration		
10% Ethanol	100°C for 2 Hours	< 5.0	< 5.0	< 5.0	10	
3% Acetic Acid	100°C for 2 Hours	< 5.0	< 5.0	< 5.0	10	
95% Ethanol	60°C for 3.5 Hours	< 5.0	< 5.0	< 5.0	10	
Iso-Octane	60°C for 1.5 Hours	< 5.0	< 5.0	< 5.0	10	

Tested Item:

1.Natural plastic

2.Indigo 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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9.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: 100°C for 2 Hours

Test Parameter		Test Result (mg/kg) (1 & 2)			
	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		
Gadolinium (Gd)	<0.01	<0.01	<0.01		
Lanthanum (La)	<0.01	<0.01	<0.01	0.05 (Sum)	
Terbium (Tb)	<0.01	<0.01	<0.01		

Tested Item:

1.Natural plastic

2.Indigo 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)

END OF TEST REPORT

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