

**TEST REPORT**

NUMBER : DELH23002637-REV1-I  
DATE : 06<sup>TH</sup> MAY, 2023





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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.

AUTHORIZED BY  
FOR INTERTEK INDIA PVT. LTD.

*Kamal Sardhana*

KAMAL SARDHANA  
ASST. MANAGER - HARDLINE

**Testing Remark:** Test results have been incorporated from report no. DELH23002637-REV1 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	<b>COMPLIES</b> Natural Plastic: <10 ppm Silicon Gasket: <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	<b>COMPLIES</b> Natural Plastic: <10 ppm Silicon Gasket: <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	<b>COMPLIES</b> Not Detected	Shall Not Contain Any Detectable Levels of Bisphenol-A (BPA)

Detection Limit: 0.1 ppm

**Tested Item:** Natural plastic + Silicon Gasket

**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	<b>COMPLIES</b> (No visual change observed)	Shall not show any chipping, cracking, glaze crazing or other visual change in appearance.



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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

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

**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	<b>COMPLIES</b> (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

**7.LEAK PROOFNESS TEST**

**Method:** As per client's specification

Tested Sample	Test Results / Observation	Requirement
Submitted Sample	(No any leakage observed)	/

**8.AIR LEAKAGE TEST:**

**Method:** As per client's specification

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

**Tested Item:** Lock & Safe Container

- : A1-As received sample
- : A2- After dishwashing



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**9. 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 <sup>2</sup> )			Requirement (mg/dm <sup>2</sup> )
		1 <sup>st</sup> Migration	2 <sup>nd</sup> Migration	3 <sup>rd</sup> 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:** Natural plastic + Lid

**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)

**10. 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)			Requirement (mg/kg)
	1 <sup>st</sup> Migration	2 <sup>nd</sup> Migration	3 <sup>rd</sup> 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 + Lid

**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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**11. VOLATILE ORGANIC MATTER (VOM):**

With Reference To (EC) No 1935/2004.

**Method:** In House Test Method

**Test Condition:** 200°C for 4 Hours

Tested Sample	Test Result (%)	Requirement (%)
Submitted Sample	0.45	<0.5

**Tested Item:** Silicone Gasket

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**# END OF TEST REPORT #**

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