

**TEST REPORT**

**Report No. : MAN:HL:1548008166**

**ISSUE DATE: 22-Nov-2024**



**KOMPOPACK (I) PVT. LTD.**  
 10/1134, KANAIYALAL DESAI ROAD,  
 GOPIPURA, SURAT- 395001  
 INDIA  
**CONTACT PERSON: CHIRAG JARIWALA**

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

**SAMPLE DESCRIPTION**            MOULDED FIBRE TABLEWARE  
**COLOR**                                WHITE  
**COUNTRY OF ORIGIN**            INDIA

**LAB PROVIDED DETAILS:**

**CONDITION OF SAMPLE**            COMPLETE AND OK  
 SGS GURUGRAM LABORATORY- SPECIFIC MIGRATION OF LEAD, SPECIFIC MIGRATION OF BISPHENOL A,  
 EXTRACTABLE HEAVY METALS, OPTICAL BRIGHTENERS, PENTACHLOROPHENOL (PCP) CONTENT,  
 SENSORY EXAMINATION – ODOUR AND TASTE TEST  
 SGS CHENNAI LABORATORY- SPECIFIC MIGRATION OF BENZOPHENONE AND 4-METHYL BENZOPHENONE, EXTRACTABLE  
 GLYOXAL, EXTRACTABLE FORMALDEHYDE,  
 SGS HONG KONG LABORATORY-PRESERVING EFFECT  
**SAMPLE RECD ON**                    23-Oct-2024                                **TESTING PERIOD : 25-Oct-2024 - 22-Nov-2024**

**SUMMARY OF TEST RESULTS:**

TESTS	PASS	FAIL	REMARKS
<b>1.EUROPEAN DIRECTORATE FOR THE QUALITY OF MEDICINES &amp; HEALTHCARE (EDQM) - PAPER AND BOARD USED IN FOOD CONTACT MATERIALS AND ARTICLES 2021</b>	--		
a) Specific migration of lead	P		
b) Preserving Effect	P		
c) Specific migration of Bisphenol A	P		
d) Specific migration of PAH	P		
<b>2. ARTICLE 3 OF EUROPEAN REGULATION NO. 1935/2004</b>	--		
Sensory Examination – odour and taste test	P		
<b>3.GERMAN FOOD, ARTICLES OF DAILY USE AND FEED CODE OF SEPTEMBER 1, 2005 (LFGB), SECTION 30 &amp; 31 WITH AMENDMENTS, AND BFR RECOMMENDATION</b>	--		
a) Extractable formaldehyde	P		
b) Extractable glyoxal	P		
<b>4.FRENCH DÉCRET 2007-766 WITH AMENDMENTS AND DGCCRF MCDA N°4 (V02 – 01/01/2019)</b>			
a) Pentachlorophenol (PCP) Content	P		
b) Migration of optical Blueing Agents	P		
<b>5. MATERIALS AND ARTICLES IN FOOD CONTACT (ENGLAND) REGULATION, UK STATUTORY INSTRUMENTS 2012 NO. 2619</b>	--		
Extractable Heavy Metals	P		
<b>6. SPECIFIC MIGRATION OF BENZOPHENONE AND 4- METHYL BENZOPHENONE</b>			SEE RESULT

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.

SANDIP BHUSHAN

TECHNICAL MANAGER

Authorized Signatory-Mechanical

Email your Test Report Related Enquiries at [Feedback.HLT@sgs.com](mailto:Feedback.HLT@sgs.com)

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**TEST RESULTS:**

**1. EUROPEAN DIRECTORATE FOR THE QUALITY OF MEDICINES & HEALTHCARE (EDQM) – PAPER AND BOARD USED IN FOOD CONTACT MATERIALS AND ARTICLES 2021:**

**a) SPECIFIC MIGRATION OF LEAD:**

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

**Simulant Used:** 3% Acetic Acid

**Test Condition:** 60°C for 02 Hours (1<sup>st</sup> Migration)

Test Item	Result (mg/kg)	Detection Limit (mg/kg)	Permissible Limit (mg/kg)
Specific migration of Lead	Not Detected	0.01	Not Detected
<b>Conclusion</b>	Pass	--	--

**Tested Item:** MOULDED FIBRE TABLEWARE

**Note :**

1. mg/kg = milligram per kilogram of foodstuff in contact with
2. Permissible Limit is according to European Directorate for the Quality of Medicines & Healthcare (EDQM) – Paper and board used in food contact materials and articles 2021.
3. Test condition & simulant were specified by the customer.
4. Test has been sub-contracted to ISO/IEC 17025 accredited laboratory.

**b) PRESERVING EFFECT:**

**Method:** With reference to EN 1104:2018 using Bacillus subtilis and Aspergillus niger as challenging culture.

Tested Fungus	Result	Specification
Bacillus subtilis ATCC No. 19659	Absent	Absence of zone inhibition
Aspergillus niger ATCC No. 16404	Absent	Absence of zone inhibition
<b>Conclusion</b>	Pass	--

**Tested Item:** MOULDED FIBRE TABLEWARE

**Note:**

1. Absent denotes absence of Antimicrobial constituents which inhibits the growth of tested bacteria and fungus.
2. Permissible Limit is according to European Directorate for the Quality of Medicines & Healthcare (EDQM) – Paper and board used in food contact materials and articles 2021
3. Testing has been subcontracted to SGS Approved lab.

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**c) SPECIFIC MIGRATION OF BISPHENOL A:**

**Method:** With reference to EN 13130-1:2004. Analysis was performed by GC-MS.  
**Simulant Used:** 3% Acetic Acid (w/v) in aqueous solution  
**Test Condition:** 60°C for 2 Hours (1<sup>st</sup> Migration)

Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
Specific migration of Bisphenol A	Not Detected	0.01	0.05
<b>Conclusion</b>	Pass	--	--

**Tested Item:** MOULDED FIBRE TABLEWARE

**Note :-**

1. mg/kg= milligram per kilogram of foodstuff in contact with
2. Permissible Limit is according to European Directorate for the Quality of Medicines & Healthcare (EDQM) – Paper and board used in food contact materials and articles 2021.
3. Test condition simulant & test elements were specified by customer.
4. Test has been sub-contracted to ISO/IEC 17025 accredited laboratory.

**d) SPECIFIC MIGRATION OF PAH:**

**Method:** With reference to EN 13130-1:2004. Analysis was performed by GC-MS  
**Simulant Used:** 3% Acetic Acid  
**Test Condition:** 60°C for 2 hours (1<sup>st</sup> Migration)

Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
Benzo(a)pyrene	Not Detected	0.001	Not Detected
Benzo(a)anthracene	Not Detected	0.001	Not Detected
Benzo(b)fluoranthene	Not Detected	0.001	Not Detected
Chrysene	Not Detected	0.001	Not Detected
<b>Conclusion</b>	Pass	--	--

**Tested Item:** MOULDED FIBRE TABLEWARE

**Note:**

1. mg/kg= milligram per kilogram of foodstuff in contact with
2. Permissible Limit is according to European Directorate for the Quality of Medicines & Healthcare (EDQM) – Paper and board used in food contact materials and articles 2021
3. Test has been sub-contracted to ISO/IEC 17025 accredited laboratory.



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**2. ARTICLE 3 OF EUROPEAN REGULATION NO. 1935/2004:**

**Sensory Examination – Odour and Taste Test:**

**Method:** With reference to DIN10955: 2023  
**Test condition:** 40°C for 30 Min.  
**Test media:** Distilled Water  
**No. of panelist:** 6

**Test Result:**

Test Media	Test Item	Result	Maximum Permissible Limit
Distilled Water	Sensorial examination odour	0	2.5
	Sensorial examination taste	0	2.5
<b>Conclusion</b>		Pass	--

**Tested Item:** MOULDED FIBRE TABLEWARE

- Note:**
1. Intensity scale (rounded at 0.5):
    - 0 – no perceptible difference
    - 1 – just perceptible difference
    - 2 – slight difference
    - 3 – marked difference
    - 4 – strong difference
  2. Permissible Limit is according to German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30& 31 with Amendments.

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**3. GERMAN FOOD, ARTICLES OF DAILY USE AND FEED CODE OF SEPTEMBER 1, 2005 (LFGB), SECTION 30 & 31 WITH AMENDMENTS, AND BFR RECOMMENDATION:**

**a) EXTRACTABLE FORMALDEHYDE:**

**Method:** With reference to EN 645:1994 (cold water extraction) and EN 1541:2001; Analysis was performed by UV-vis Spectrophotometer.

Test Item	Result (mg/dm <sup>2</sup> )	Reporting Limit (mg/dm <sup>2</sup> )	Permissible Limit (mg/dm <sup>2</sup> )
Extractable Formaldehyde	Not Detected	0.1	1
<b>Conclusion</b>	Pass	--	--

**Tested Item:** MOULDED FIBRE TABLEWARE

**Note :-**

- mg/dm<sup>2</sup> = milligram per square decimeter
- Permissible Limit is according to BfR Recommendation XXXVI.
- Test has been sub-contracted to ISO/IEC 17025 accredited laboratory.

**b) EXTRACTABLE GLYOXAL:**

**Method:** With reference to DIN 54603

Test Item	Result (mg/dm <sup>2</sup> )	Reporting Limit (mg/dm <sup>2</sup> )	Permissible Limit (mg/dm <sup>2</sup> )
Extractable Glyoxal	Not Detected	0.5	1.5
<b>Conclusion:</b>	Pass	--	--

**Tested Item:** MOULDED FIBRE TABLEWARE

**Note :-**

- mg/dm<sup>2</sup> = milligram per square decimeter
- Permissible Limit is according to BfR Recommendation XXXVI.
- Test has been sub-contracted to ISO/IEC 17025 accredited laboratory.

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**4. FRENCH DÉCRET 2007-766 WITH AMENDMENTS AND DGCCRF MCDA N°4 (V02 – 01/01/2019):-**

**a) PENTACHLOROPHENOL (PCP) CONTENT:**

**Method:** With reference to EN 645:1993 (cold water extraction) and EN 647:1993 (hot water extraction) and ISO 15320:2011. Analysis was performed by GC-MS

TEST ITEM	Result (mg/kg)		Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
	Hot Water	Cold Water		
PCP Content	Not Detected	Not Detected	0.05	0.1
<b>Conclusion</b>	Pass	Pass	--	--

**Tested Item:** MOULDED FIBRE TABLEWARE

**Note:**

- mg/kg = milligram per kilogram
- Permissible Limit is according to DGCCRF MCDA n°4 (V02 – 01/01/2019).
- Test has been sub-contracted to ISO/IEC 17025 accredited laboratory.

**b) MIGRATION OF OPTICAL BLUEING AGENTS:**

**Method:** With reference to BS EN 648: 2018.

Simulant Used	Result	Requirement
Deionized Water	Grade 5	Grade 5
3% Acetic Acid (W/V) Aqueous Solution	Grade 5	Grade 5
Alkaline Salt Solution	Grade 5	Grade 5
Rectified Olive Oil	Grade 5	Grade 5
<b>Conclusion</b>	Pass	--

**Tested Item:** MOULDED FIBRE TABLEWARE

**Note :-**

- Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.
- Permissible Limit is according to DGCCRF MCDA n°4 (V02 – 01/01/2019).
- Test has been sub-contracted to ISO/IEC 17025 accredited laboratory.

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**5. MATERIALS AND ARTICLES IN FOOD CONTACT (ENGLAND) REGULATION, UK STATUTORY INSTRUMENTS 2012 NO. 2619:-**

**Extractable Heavy Metals:-**

**Method:** With reference to EN 645:1993 (cold water extraction) and EN 647:1993 (hot water extraction), Analysis was performed by UV-vis Spectrometry and ICP-OES / ICP-MS.

Test Item	Result (mg/dm <sup>2</sup> )	Reporting Limit (mg/dm <sup>2</sup> )	Permissible Limit (mg/dm <sup>2</sup> )
Extractable Lead	Not Detected	0.003	0.003
Extractable Cadmium	Not Detected	0.002	0.002
Extractable Mercury	Not Detected	0.002	0.002
<b>Conclusion</b>	Pass	--	--

**Tested Item:** MOULDED FIBRE TABLEWARE

**Note:**

- mg/dm<sup>2</sup> = milligram per square decimeter.
- Permissible limit has been taken from UK Statutory Instruments 2012 No. 2619.
- Test has been sub-contracted to ISO/IEC 17025 accredited laboratory.

**6. SPECIFIC MIGRATION OF BENZOPHENONE AND 4- METHYL BENZOPHENONE:**

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

**Simulant Used** 3% Acetic Acid

**Test Condition:** 60°C for 2 Hours (1<sup>st</sup> Migration)

Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
Specific Migration Of Benzophenone	Not Detected	10	--
Specific Migration Of 4- Methyl Benzophenone	Not Detected	10	--

**Tested Item:** MOULDED FIBRE TABLEWARE

**Note:**

1. mg/kg = milligram per kilogram of foodstuff in contact with
2. Test has been sub-contracted to ISO/IEC 17025 accredited laboratory.
3. Above all testing has been performed as per customer request.

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**Sample as Received (Tested Sample)**



**Grouped Samples Image For Digital Purpose Only**



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