

**TEST REPORT****Report No. GR:HL:1552000687****ISSUE DATE: 27-Apr-2024****GREENPACK INDIA PVT.LTD.**

D-134, SITE 5, KASNA , GREATER NOIDA,

GAUTAM BUDH NAGAR (U.P)

INDIA

CONTACT PERSON:MANISH KUMAR SINGH**THE FOLLOWING SAMPLE(S) WAS/WERE SUBMITTED AND IDENTIFIED BY/ON BEHALF OF THE CUSTOMER AS :****SAMPLE DESCRIPTION** WATER BASED COATING (COMPOSTABLE)**COLOR** WHITE**END USE** FOOD PACKAGING**COUNTRY OF ORIGIN** INDIA**LAB PROVIDED DETAILS:****CONDITION OF SAMPLE** COMPLETE AND OK**THE LOCATION OF PERFORMANCE OF THE LABORATORY ACTIVITIES:**

SGS GURUGRAM LABORATORY- OVERALL MIGRATION, PLASTIC OVERALL MIGRATION

SGS MANESAR LABORATORY- POLYMER IDENTIFICATION

SAMPLE RECD ON 22-Mar-2024 **TESTING PERIOD :** 01-Apr-2024 - 27-Apr-2024**SUMMARY OF TEST RESULT:**

TESTS	PASS	FAIL	REMARKS
1. DETERMINATION OF OVERALL MIGRATION OF CONSTITUENTS OF PLASTIC MATERIALS AND ARTICLES INTENDED TO COME IN CONTACT WITH FOOD STUFFS – ACCORDING TO IS 9845: 1998 (R 2020)	P		
2.TESTING AS PER COMMISSION REGULATION (EU) NO 10/2011	--		
OVERALL MIGRATION	P		
3. POLYMER IDENTIFICATION			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)

TEST RESULTS:**1. OVERALL MIGRATION:**Method: IS 9845: 1998 (R 2020) (1st Migration)

Simulant Used	Test Condition	Result (Amount of Extractives)		Permissible Limit	
		(mg/kg)	(mg/dm ²)	(mg/kg)	(mg/dm ²)
Distilled Water	70°C for 02 Hours	46.2	7.7	60	10
N-heptane	66°C for 02 Hours	<12	<2	60	10
Conclusion	--	Pass	Pass	--	--

Tested Item: WATER BASED COATING (COMPOSTABLE)**Note :-**

1. mg/dm² = milligram per decimeter square, mg/kg= milligram per Kilogram.
2. °C = degree Celsius, < = less than
3. Permissible Limit is according to indian food safety and standards (Packaging) regulations 2018 with amendment.
4. Test condition & simulant were specified by customer.

2. TESTING AS PER COMMISSION REGULATION (EU) No 10/2011:**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 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)
10% Ethanol	40°C For 10 Days	8.1	2	10
Conclusion	--	Pass	--	--

Tested Item: WATER BASED COATING (COMPOSTABLE)**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 amendment .
- Analytical tolerance of aqueous simulants is 2mg/dm².
- Test condition & simulant were specified by customer.

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NON ACCREDITED TEST(S)

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 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)
Tenax	40°C For 10 Days	Not Detected	2.0	10
Conclusion	--	Pass	--	--

Tested Item: WATER BASED COATING (COMPOSTABLE)

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 amendment .
- Analytical tolerance of aqueous simulants is 2mg/dm².
- Test condition & simulant were specified by customer.

3. POLYMER IDENTIFICATION:

METHOD: ASTM E 1252:2021 By FTIR Analysis.

Test Name	Test Result	Requirement
Polymer Identification	Polyethylene Present	/

Tested Item: WATER BASED COATING (COMPOSTABLE)

Note:

- Testing has been performed as per customer request.
- Test has been sub-contracted to ISO/IEC 17025 accredited laboratory.
- Above All testing has been performed as per customer request.

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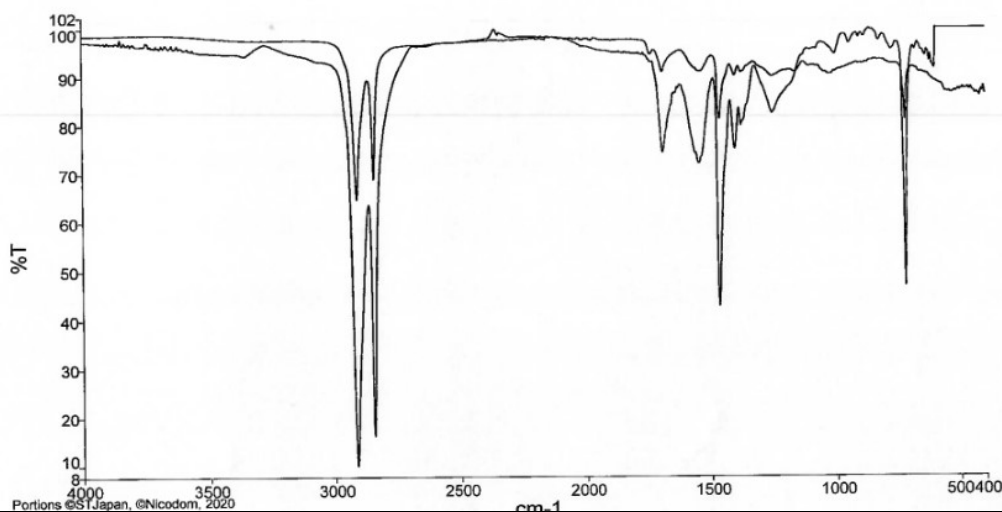
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Sample as Received



FTIR Graph



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

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