



ناشونال لابوراتوري اند ريسيرش سنتر م.م.ح
National Laboratory & Research Center

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TEST REPORT

Report Number: NLRC/25-R4354-01/A

Date of Issue: October 25, 2025

Company Name: TERRAPLAST PLASTIC INDUSTRY LLC

Address: Umm Al Quwain - UAE

SAMPLE DETAIL

Sample Description:	PLASTIC COVER	Sampled by:	Client Representative
Brand Name:	N/A	Date Received:	14/10/2025
Batch No:	N/A	Lab. Request No.:	NLRC/25/10/JO-4354
Production Date:	N/A	Sample No.:	S4354-01
Expiry Date:	N/A	Date of Test:	15/10/2025
Barcode:	N/A	End of Test:	25/10/2025
Reference:	Sample Request Form		

PHOTO



Expert



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PARAMETERS / RESULTS

1. Materials and articles in contact with foodstuffs-Overall Migration

Test Method: With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of test condition and EN 1186-1:2002 for selection of test methods; EN 1186-3: 2002 aqueous food simulants by total immersion method

S. No	Simulant used	Time/Duration	Temperature	Unit	MDL	Max. Permissible Limit	Result			
							1 st	2 nd	3 rd	Mean
1	Food simulant A Ethanol 10% (v/v)	10 Days	40 °C	mg/dm ²	2.5	10	< 2.5	< 2.5	< 2.5	< 2.5
2	Food simulant B Acetic acid 3% (w/v)	10 Days	40 °C	mg/dm ²	2.5	10	< 2.5	< 2.5	< 2.5	< 2.5
3	Food simulant C Ethanol 20% (v/v)	10 Days	40 °C	mg/dm ²	2.5	10	< 2.5	< 2.5	< 2.5	< 2.5

2. Determination of Specific Migration of Primary Aromatic Amines (PAAs)

Test Method: With reference to Commission Regulation (EU) No 2020/1245 of 2 September 2020 amending (EU) No 10/2011 of 14 January 2011 Annex II for migration limit, EN 13130-1 for selection of test method and analysis was performed by LC-MS/MS

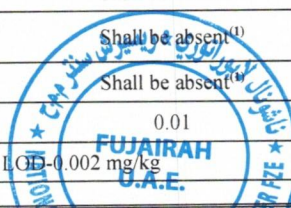
Simulant used: Acetic acid 3% (w/v) Aqueous Solution

Test Conditions: Temperature: 70 °C, Duration: 2 hours

S. No	Parameters	Unit	MDL	Max. Permissible Limit	Result
1	o-Toluidine	mg/kg	0.002	Shall be absent ⁽¹⁾	ND
2	2- methoxyaniline	mg/kg	0.002	Shall be absent ⁽¹⁾	ND
3	4-Chloroaniline	mg/kg	0.002	Shall be absent ⁽¹⁾	ND
4	2-Methoxy-5-methylaniline	mg/kg	0.002	Shall be absent ⁽¹⁾	ND
5	2,4,5-Trimethylaniline	mg/kg	0.002	Shall be absent ⁽¹⁾	ND
6	4-Chloro-o-toluidine	mg/kg	0.002	Shall be absent ⁽¹⁾	ND
7	2,4- Diaminotoluene	mg/kg	0.002	Shall be absent ⁽¹⁾	ND
8	2,4- Diaminoaniline	mg/kg	0.002	Shall be absent ⁽¹⁾	ND
9	2-Naphthalenamine	mg/kg	0.002	Shall be absent ⁽¹⁾	ND
10	5-nitro-o-toluidine	mg/kg	0.002	Shall be absent ⁽¹⁾	ND
11	4-Aminobiphenyl	mg/kg	0.002	Shall be absent ⁽¹⁾	ND
12	p-Phenylazoaniline	mg/kg	0.002	Shall be absent ⁽¹⁾	ND
13	4-Aminophenylether	mg/kg	0.002	Shall be absent ⁽¹⁾	ND
14	Benzidine	mg/kg	0.002	Shall be absent ⁽¹⁾	ND
15	4,4-methylenedianiline	mg/kg	0.002	Shall be absent ⁽¹⁾	ND
16	o-aminoazotoluene	mg/kg	0.002	Shall be absent ⁽¹⁾	ND
17	3,3-dimethyl-4,4-diaminodiphenylmethane	mg/kg	0.002	Shall be absent ⁽¹⁾	ND
18	3,3-Dimethylbenzidine	mg/kg	0.002	Shall be absent ⁽¹⁾	ND
19	4,4-thiodianiline	mg/kg	0.002	Shall be absent ⁽¹⁾	ND
20	3,3-dichlorobenzidine	mg/kg	0.002	Shall be absent ⁽¹⁾	ND
21	4,4- methylene-bis-chloroaniline	mg/kg	0.002	Shall be absent ⁽¹⁾	ND
22	3,3-Dimethoxybenzidine	mg/kg	0.002	Shall be absent ⁽¹⁾	ND
Sum of PAA		mg/kg	-	0.01	ND

Remarks

⁽¹⁾ Shall not detected with the detection limit LOD=0.002 mg/kg





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PARAMETERS / RESULTS

3. *DETERMINATION OF SPECIFIC MIGRATION OF COPOLYMER

Test Method: With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN13130-1:2004 for selection of test method, analysis was performed by GC-FID

S. No	Compounds / Test Items	Units	Max. Permissible Limit	MDL	Result
1	1-Hexene	mg/kg	≤ 3	1.0	ND
2	1-Octene	mg/kg	≤ 15	1.0	ND
3	1-Butene	mg/kg	-	1.0	ND

Remarks if any:

Test Variation: None

Statement of Conformity: Based on the above test(s), the sample is in compliance with the requirements of UAE.S/GSO 2231: 2012 General requirements – for the materials intended to come into contact with food.

Key Words: No symbol: Accredited, (*) Symbol: Not Accredited, (**) Symbol: Subcontracted Laboratory, (***) Symbol: Subcontracted External Lab. comply with ISO 17025
LOQ – Limit of Quantitation, UM – Uncertainty of Measurement, N/A – Not Applicable, ND – Not Detected,

Note(s):

1. National Laboratory & Research Centre accredited by IAS (International Accreditation Service) in accordance with the recognized International Standard ISO/IEC 17025:2017.
2. IAS is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing reports.
3. The test results in this report relates only to the sample tested. This test report shall not be reproduced except in full, without the written approval of NLRC.
4. Measurement uncertainty provided is based on expanded uncertainty using coverage factor of 2, at 95% confidence level.

~END OF REPORT~



Alaa Fuad Sad
Laboratory Director