

TEST REPORT

Report No. : MAN:HL:1248007606

DATE : 07th December, 2021



ECO PALLET PRIVATE LIMITED
 PLOT NO. 1, KIADB INDUSTRIAL AREA
 DODDABALLAPURA, BASHETTYHALLI VILLAGE KASABA HOBLI
 DODDABALLAPURA TALUK, BENGALURU RURAL DISTRICT – 561203
 INDIA
CONTACT PERSON: MS. PRIYA PRAKASH

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

SAMPLE DESCRIPTION	1.POLYUREA COATED ON WOOD, 2. POLYUREA COATED ON PLYWOOD, 3.POLYUREA COATED ON EPS, 4.POLYUREA PLAIN SHEET 3 NO'S
LAB IDENTIFIED SAMPLE COLOUR	PU COATED SHEET GREY
SAMPLE RECD ON	17/11/2021
TEST PERFORMING DATE	23/11/2021 TO 07/12/2021

SUMMARY OF TEST RESULTS:

TEST REQUESTED	CONCLUSION
1. TESTING AS PER COMMISSION REGULATION (EU) NO. 10/2011	--
SPECIFIC MIGRATION OF PRIMARY AROMATIC AMINE	PASS
2. SPECIFIC MIGRATION OF HEAVY METALS	PASS
3. 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 2015)	PASS
4. SPECIFIC MIGRATION OF BIS-(2-ETHYLHEXYL) PHTHALATE (DEHP)	PASS
5. TOTAL LEAD CONTENT	PASS
6. TOTAL CADMIUM CONTENT	PASS
7. TOTAL CONTENT ISOCYANATES	SEE RESULT

TEST(S) RESULT & METHOD: PLEASE REFER TO NEXT PAGE(S)

Per Pro SGS India Pvt.Ltd.



Sandip Bhushan (Technical Manager)
Authorized Signatory

Email your Test Report Related Enquiries at Feedback.HLT@sgs.com

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TEST RESULTS :-

1. SPECIFIC MIGRATION OF PRIMARY AROMATIC AMINE:

Method: With reference to EN13130-1:2004 and EU JRC guideline EUR 24815 EN 2011. Analysis was performed by LC-MS/MS.

Simulant Used: Distilled Water

Test Condition: 40°C for 10 Days (1st Migration)

Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
4-Aminobiphenyl	Not Detected	0.002	0.002
Benzidine	Not Detected	0.002	0.002
4-Chloro-o-toluidine	Not Detected	0.002	0.002
2-Naphthylamine	Not Detected	0.002	0.002
o-Aminoazotoluene	Not Detected	0.002	0.002
5-Nitro-o-toluidine	Not Detected	0.002	0.002
4-Chloroaniline	Not Detected	0.002	0.002
4-Methoxy-m-phenylenediamine	Not Detected	0.002	0.002
4,4'-Methylenedianiline	Not Detected	0.002	0.002
3,3'-Dichlorobenzidine	Not Detected	0.002	0.002
3,3'-Dimethoxybenzidine	Not Detected	0.002	0.002
3,3'-Dimethylbenzidine	Not Detected	0.002	0.002
4,4'-Methylenedi-o-toluidine	Not Detected	0.002	0.002
6-Methoxy-m-toluidine	Not Detected	0.002	0.002
4,4'-Methylene-bis-(2-chloro-aniline)	Not Detected	0.002	0.002
4,4'-Oxydianiline	Not Detected	0.002	0.002
4,4'-Thiodianiline	Not Detected	0.002	0.002
o-Toluidine	Not Detected	0.002	0.002
2,4-Toluenediamine	Not Detected	0.002	0.002
2,4,5-Trimethylaniline	Not Detected	0.002	0.002
o-Anisidine	Not Detected	0.002	0.002
4-Amino azobenzene	Not Detected	0.002	0.002
1,3-Phenylenediamine	Not Detected	0.002	0.002
Conclusion	PASS	--	--

Tested Item : PU COATED SHEET

Note :

1. mg/kg = milligram per kilogram of foodstuff in contact with
2. Permissible Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 and its amendment (EU) 2020/1245 Regulation.
3. Test condition & simulant were specified by the client
4. Testing has been subcontracted to SGS Gurugram lab.

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2. SPECIFIC MIGRATION OF HEAVY METALS:

Method: With reference to EN 13130-1: 2004, Analysis was performed by ICP-MS/ ICP-OES.
Simulant Used: Distilled Water
Test Condition: 40°C for 10 Days. (1st Migration)

Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
Specific Migration of Barium	Not Detected	0.25	1
Specific Migration of Cobalt	Not Detected	0.01	0.05
Specific Migration of Copper	Not Detected	0.25	5
Specific Migration of Iron	Not Detected	0.25	48
Specific Migration of Lithium	Not Detected	0.5	0.6
Specific Migration of Manganese	Not Detected	0.25	0.6
Specific Migration of Zinc	Not Detected	0.5	25
Specific Migration of Antimony	Not Detected	0.02	0.04
Conclusion	Pass	--	--

Tested Item : PU COATED SHEET

Note :-

1. mg/kg= milligram per kilogram
2. °C = degree Celsius
3. Permissible Limit is according to indian food safety and standard (packaging) Regulations 2018 with amendments and for antimony is according to notice for operationalisation of draft food safety and standards (Packaging) amendment regulations 2020.
4. Testing has been subcontracted to SGS Gurugram lab.

3. OVERALL MIGRATION:

Method: IS 9845: 1998 (R 2015) (1st Migration)

Simulant Used	Test Condition	Result (Amount of Extractives)		Permissible Limit	
		(mg/kg)	(mg/dm ²)	(mg/kg)	(mg/dm ²)
Distilled Water	40°C for 10 Days	<12	<2	60	10
Conclusion	--	Pass	Pass	--	--

Tested Item : PU COATED SHEET

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 standard (packaging) Regulations 2018 with amendments.
4. Test condition & simulant were specified by client.
5. Testing has been subcontracted to SGS Gurugram lab.

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4. SPECIFIC MIGRATION OF BIS-(2-ETHYLHEXYL) PHTHALATE (DEHP):

Method: With reference to EN 13130-1:2004. Analysis was performed by GC-MS.
Simulant Used Distilled Water
Test Condition: 40°C for 10 Days (1st Migration)

Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
Bis-(2-ethylhexyl) phthalate (DEHP)	Not Detected	0.1	1.5
Conclusion	Pass	--	--

Tested Item : PU COATED SHEET

Note :-

1. mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius
3. Permissible Limit is according to notice for operationalisation of draft food safety and standards (Packaging) amendment regulations 2020.
4. Test condition & simulant were specified by client.
5. Testing has been subcontracted to SGS Gurugram lab.

5. TOTAL LEAD CONTENT:

Method: SGS In House Method-Acid Digestion; Analysis Was Performed By AAS.

Test Name	Test Result (ppm)	Requirement (ppm)
Total Lead Content	Not Detected	≤ 500 ppm
Conclusion	Pass	--

Detection Limit: 20 ppm

Tested Item : PU COATED SHEET

Note:

- Permissible Limit specified by commission regulation (EU) No. 2015/628 amending annex XVII of REACH Regulation (EC) No 1907/2006.
- Testing has been subcontracted to SGS Gurugram lab.

6. TOTAL CADMIUM CONTENT:

METHOD: SGS In House Method-Acid Digestion; Analysis Was Performed By AAS.

TEST NAME	TEST RESULT (ppm)	REQUIREMENT (ppm)
Total Cadmium Content	Not Detected	≤100
Conclusion	Pass	--

Detection Limit:20 ppm

Tested Item : PU COATED SHEET

Note:

- Permissible Limit specified by commission regulation (EU) No. 835/2012 amending annex XVII of REACH Regulation (EC) No 1907/2006.
- Testing has been subcontracted to SGS Gurugram lab.

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7. TOTAL CONTENT ISOCYANATES:

Method: With reference to BS EN 13130-8:2004 Analysis by LC-MS		
Test Item	Result (mg/kg)	Requirement (mg/kg)
Hexamethylene diisocyanate (HDI) Isophorone diisocyanate (IPDI) 2,4- Toluene diisocyanate (2,4-TDI) 2,6- Toluene diisocyanate (2,6- TDI) Disphenylmethane diisocyanate (MDI) Tetramethylxylene Diisocyanate (TMXD)	Not Detected	/

Detection limit: 1 mg/kg

Tested Item : PU COATED SHEET

Note:

- Testing has been subcontracted to SGS Chennai lab.
- Above all testing has been performed as per client's request.



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(Sample As Received) Grouped Sample



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