AB 079

TEST REPORT NO 411402/24/GDY

Client	Sample (according to declaration of Client)
CZP PREMIUM MARIUSZ SZEFLER 39A 87 -400 Białkowo	Sample description: Paper with recycled content intended for production hygiene products and bedding.

Sample reception date:	08.07.2024	Sample status: no objections
Start of analysis	15.07.2024	
End of analysis	31.07.2024	Sample received from the Client
Test report date	31.07.2024	

Test Method	Unit	Result	Criteria	Statement of conformity
* Primary aromatic amines content in the hot water extract [3) 4)] PB-413 ed. 3 of 17.01.2024				
4,4′-Diaminodiphenyl sulfone [CAS: 80-08-0]	µg/kg of water extract	< 2,0 (2,0 ± 0,7)	-	-
2-Aminobenzamide, [CAS: 88-68-6]	µg/kg of water extract	< 2,0 (2,0 ± 0,7)	-	-
1,3-Phenylenediamine, [CAS: 108-45-2]	µg/kg of water extract	< 2,0 (2,0 ± 0,7)	-	-
4,4'-Methylenebis(3-chloro-2,6-diethylaniline), [CAS 106246-33-7]	µg/kg of water extract	< 2,0 (2,0 ± 0,7)	-	-
4-Aminodifenyl, [CAS 92-67-1]	µg/kg of water extract	< 2,0 (2,0 ± 0,7)	≤ 2	Pass
Benzidine, [CAS 92-87-5]	µg/kg of water extract	< 2,0 (2,0 ± 0,7)	≤ 2	Pass
4-Chloro-o-toluidine, [CAS 95-69-2]	µg/kg of water extract	< 2,0 (2,0 ± 0,7)	≤ 2	Pass
2-Naphthylamine, [CAS: 91-59-8]	µg/kg of water extract	< 2,0 (2,0 ± 0,7)	≤ 2	Pass
o-Aminoazotoluene, [CAS 97-56-3]	µg/kg of water extract	< 2,0 (2,0 ± 0,7)	≤ 2	Pass
2-Amino-4-nitrotoluene, [CAS: 99-55-8]	µg/kg of water extract	< 2,0 (2,0 ± 0,7)	-	-
p-Chloroaniline, [CAS 106-47-8]	µg/kg of water extract	< 2,0 (2,0 ± 0,7)	≤ 2	Pass
4,4'-Diaminodiphenylmethane, [CAS 101-77-9]	µg/kg of water extract	< 2,0 (2,0 ± 0,7)	≤ 2	Pass
3,3'-Dichlorobenzidine, [CAS: 91-94-1]	µg/kg of water extract	< 2,0 (2,0 ± 0,7)	≤ 2	Pass
3,3'-Dimethoxybenzidine, [CAS 119-90-4]	µg/kg of water extract	< 2,0 (2,0 ± 0,7)	≤ 2	Pass
3,3'-Dimethylbenzidine, [CAS: 119-93-7]	µg/kg of water extract	< 2,0 (2,0 ± 0,7)	≤ 2	Pass
4,4′-Diamino-3,3′-dimethyldiphenylmethane, [CAS 838-88-0]	µg/kg of water extract	< 2,0 (2,0 ± 0,7)	≤ 2	Pass
p-Cresidine, [CAS 120-71-8]	µg/kg of water extract	< 2,0 (2,0 ± 0,7)	≤ 2	Pass
4,4′-Methylene-bis(2-chloroaniline), [CAS 101-14-4]	µg/kg of water extract	< 2,0 (2,0 ± 0,7)	≤ 2	Pass
4,4'-Oxydianiline, [CAS 101-80-4]	µg/kg of water extract	< 2,0 (2,0 ± 0,7)	≤ 2	Pass

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4,4'-Thiodianiline, [CAS 139-65-1]	µg/kg of water extract	< 2,0 (2,0 ± 0,7)	≤ 2	Pass
o-Toluidine, [CAS 95-53-4]	µg/kg of water extract	< 2,0 (2,0 ± 0,7)	≤ 2	Pass
2,4-Toluenediamine, [CAS: 95-80-7]	µg/kg of water extract	< 2,0 (2,0 ± 0,7)	≤ 2	Pass
2,4,5-Trimethylaniline, [CAS: 137-17-7]	µg/kg of water extract	< 2,0 (2,0 ± 0,7)	≤ 2	Pass
o-Anisidine, [CAS 90-04-0]	µg/kg of water extract	< 2,0 (2,0 ± 0,7)	≤ 2	Pass
4-Aminoazobenzene, [CAS 60-09-3]	µg/kg of water extract	< 2,0 (2,0 ± 0,7)	≤ 2	Pass
Anilin, [CAS: 62-53-3]	µg/kg of water extract	3,9 ± 1,4	-	-
2,4-Dimethylaniline, [CAS 95-68-1]	µg/kg of water extract	< 2,0 (2,0 ± 0,7)	-	-
2,6- Dimethylaniline, [CAS 87-62-7]	µg/kg of water extract	< 2,0 (2,0 ± 0,7)	-	-
1,5-Diaminonaphthalene, [CAS 2243-62-1]	µg/kg of water extract	< 2,0 (2,0 ± 0,7)	-	-
3-Chloroaniline, [CAS: 108-42-9]	µg/kg of water extract	< 2,0 (2,0 ± 0,7)	-	-
p-Toluidine, [CAS: 106-49-0]	µg/kg of water extract	< 2,0 (2,0 ± 0,7)	-	-
1,4-Phenylenediamine, [CAS: 106-50-3]	µg/kg of water extract	< 2,0 (2,0 ± 0,7)	-	-
2,6-Diaminotoluene, [CAS: 823-40-5]	µg/kg of water extract	< 2,0 (2,0 ± 0,7)	-	-
N,N-Dimethylaniline, [CAS: 121-69-7]	µg/kg of water extract	< 2,0 (2,0 ± 0,7)	-	-
2,4'-Methylenedianiline, [CAS: 1208-52-2]	µg/kg of water extract	< 2,0 (2,0 ± 0,7)	-	-
2,5-Dimethoxy-4-chloroaniline, [CAS: 6358-64-1]	µg/kg of water extract	< 2,0 (2,0 ± 0,7)	-	-
4-Aminobenzamide, [CAS: 2835-68-9]	µg/kg of water extract	< 2,0 (2,0 ± 0,7)	-	-
4-Aminotoluene-3-sulfonic acid, [CAS: 88-44-8]	µg/kg of water extract	15,8 ± 5,5	-	-
4-Methylaminosulfonyl-p-cresidine, [CAS: 49564-57-0]	µg/kg of water extract	< 2,0 (2,0 ± 0,7)	-	-
1,2-Phenylenediamine, [CAS: 95-54-5]	µg/kg of water extract	< 2,0 (2,0 ± 0,7)	-	-
5-Amino-6-methyl-2-benzimidazolone, [CAS: 67014-36-2]	µg/kg of water extract	< 2,0 (2,0 ± 0,7)	-	-
2,2'-Methylenedianiline, [CAS 6582-52-1]	µg/kg of water extract	< 2,0 (2,0 ± 0,7)	-	-
2-Methoxy-4-nitroaniline, [CAS 97-52-9]	µg/kg of water extract	< 5,0 (5,0 ± 1,8)	-	-
2-Amino-5-chloro-p-toluenesulfonic acid, [CAS 88-53-9]	µg/kg of water extract	< 2,0 (2,0 ± 0,7)	-	-
2-Amino-1-naphthalenesulfonic acid [CAS: 81-16-3]	µg/kg of water extract	< 2,0 (2,0 ± 0,7)	-	-
6-Ethoxynaphthalen-2-amine, [CAS 293733-21-8]	µg/kg of water extract	< 2,0 (2,0 ± 0,7)	-	-
5-Amino-2-methylbenzenesulfonic acid, [CAS 118-88-7]	µg/kg of water extract	< 2,0 (2,0 ± 0,7)	-	-
2,4-Diaminoanisole, [CAS: 615-05-4]	µg/kg of water extract	< 2,0 (2,0 ± 0,7)	≤ 2	Pass
4-Amino-3-fluorophenol [CAS: 399-95-1]	µg/kg of water extract	< 2,0 (2,0 ± 0,7)	≤ 2	Pass

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Sum of primary aromatic amines	µg/kg of water extract	19,8 ± 6,9	≤ 10	Fail
* Content of elements in hot water extract [1) 3) 4)] PN-EN 647:1998, PB-204 ed. 7 of 20.07.2023				
Aluminum (Al)[2)]	mg/kg	0,606 ± 0,121	≤ 1	Pass
Cadmium (Cd)	µg/l	< 2,5 (2,5 ± 0,5)	≤ 5	Pass
Lead (Pb)	µg/l	< 10 (10 ± 2)	≤ 10	Pass
Mercury (Hg)	µg/l	< 2,5 (2,5 ± 0,5)	-	-

1) Result expressed as mg/kg of water extract. By convention, the result is considered equivalent to migration in mg/kg of food. This corresponds to 13.3 dm2/kg food if the mass of paper or board is 300g/m2 (BfR Rec. XXXVI; EDQM Paper and board used in food contact materials and articles, 1st Edition).

2) Aluminum - result without accreditation.

3) The lower limit of the measuring range of the accredited method, which is also the limit of quantification set by the Laboratory.

4) BfR Recommendation XXXVI, Paper and board for food contact of 01.02.2023.

Authorized by:
ID: 1037, Analyst, Non-Food and Packaging Laboratory
ID: 1409, Senior Analysis Specialist, Non-Food and Packaging Laboratory

The test report bears the certified electronic seal of J.S. Hamilton Poland Sp. z o.o.

Laboratory address:
Chwaszczyńska 180, 81-571 Gdynia

* Test method accredited
# Test performed by external provider

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THE END OF THE REPORT

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