

Test Report

Applicant : PT Indah Kiat Pulp And Paper Tbk
 Jl Raya Serang Km 76 Kragilan
 Serang Banten 42184

Date : Jan 31, 2023

Attn : Tohari Waluyo

Sample description:

One (1) group of submitted sample said to be :

Material Name : **DELIPAC (FOOD-OVEN-CUP)**
 Country of Original : Indonesia
 Manufacturers Name : PT Indah Kiat Pulp And Paper Tbk
 Date sample received : Jan 16, 2023
 Testing period : Jan 16, 2023 to Jan 31, 2023



Test conducted:

As requested by the applicant, for details please refer to attached pages.

Conclusion:

Tested sample	Standard	Result
Submitted sample	Toxics in Packaging Clearinghouse Model Legislation – US TPCB - PFAS Content	See test conduct

Remark:

Test subcontracted to Intertek Vietnam

FN

Prepared and checked by:
 For Intertek Indonesia

Made Widyani
 Operation Manager - Testing

IUS – CR.RH – 001

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Test Report

Report Number: JKT23000121

Test Conducted:

Test Result Summary:

PFAS Content (Toxics in Packaging Clearinghouse – US TPCH)

Test method: By solvent extraction and followed by Liquid Chromatographic - Tandem Mass Spectrometer (LC-MS/MS) analysis and Gas Chromatography Mass Spectrometry (GC-MS) analysis.

No.	Substances	CAS No	Result (µg/m ²)	Limit (µg/m ²)
1	Perfluorooctanoic acid (PFOA)	335-67-1	ND	ND
2	Sodium perfluorooctanoate (PFOA-Na)	335-95-5	ND	ND
3	Potassium perfluorooctanoate (PFOA-K)	2395-00-8	ND	ND
4	Silver perfluorooctanoate (PFOA-Ag)	335-93-3	ND	ND
5	Perfluorooctanoyl fluoride (PFOA-F)	335-66-0	ND	ND
6	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	ND	ND
7	2-Perfluorooctylethanol (8:2 FTOH)	678-39-7	ND	ND
8	1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9	ND	ND
9	Methyl perfluorooctanoate (Me-PFOA)	376-27-2	ND	ND
10	1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)	1996-88-9	ND	ND
11	Ethyl perfluorooctanoate (Et-PFOA)	3108-24-5	ND	ND
12	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4	ND	ND
13	Perfluoro-1-iodooctane (PFOI)	507-63-1	ND	ND
14	Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ND	ND
15	Perfluorooctanesulfonic acid, potassium salt (PFOS-K)	2795-39-3	ND	ND
16	Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)	29457-72-5	ND	ND
17	Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH ₄)	29081-56-9	ND	ND
18	Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(OH) ₂)	70225-14-8	ND	ND
19	Perfluorooctanesulfonic acid, tetraethylammonium salt (PFOS-N(C ₂ H ₅) ₄)	56773-42-3	ND	ND
20	1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluoro-1-octanesulfonic acid (PFOS-DDA)	251099-16-8	ND	ND
21	Perfluoro-1-octanesulfonyl fluoride (POSF)	307-35-7	ND	ND
22	Perfluorooctane sulfonamide (PFOSA)	754-91-6	ND	ND
23	N-Ethylperfluoro-1-octanesulfonamide (N-Et-FOSA)	4151-50-2	ND	ND
24	N-Methylperfluoro-1-octanesulfonamide (N-Me-FOSA)	31506-32-8	ND	ND

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No.	Substances	CAS No	Result ($\mu\text{g}/\text{m}^2$)	Limit ($\mu\text{g}/\text{m}^2$)
25	2-(N-Ethylperfluoro-1-octanesulfonamido)-ethanol (N-Et-FOSE)	1691-99-2	ND	ND
26	2-(N-Methylperfluoro-1-octanesulfonamido)-ethanol (N-Me-FOSE)	24448-09-7	ND	ND
27	Perfluoro-butanoic acid (PFBA)	375-22-4	ND	ND
28	Perfluoro-butane-sulfonic acid (PFBS)	375-73-5	ND	ND
29	Perfluoro-butane-sulfonic acid, K-salt (PFBS-K)	29420-49-3	ND	ND
30	Perfluoro-pentanoic acid (PFPeA)	2706-90-3	ND	ND
31	Perfluoro-hexanoic acid (PFHxA)	307-24-4	ND	ND
32	Perfluoro-hexane-sulfonic acid (PFHxS)	355-46-4	ND	ND
33	Perfluoro-hexane-sulfonic acid, Na-salt (PFHxS-Na)	82382-12-5	ND	ND
34	Perfluoro-hexane-sulfonic acid, K-salt (PFHxS-K)	3871-99-6	ND	ND
35	Perfluoro-heptanoic acid (PFHpA)	375-85-9	ND	ND
36	Perfluoro-heptane-sulfonate (PFHpS)	375-92-8	ND	ND
37	Perfluoro-heptane-sulfonate Na-salt (PFHpS-Na)	68555-66-8	ND	ND
38	Perfluoro-decane-sulfonic acid (PFDS)	335-77-3, 126105-34-8	ND	ND
39	Perfluoro-decane-sulfonic acid, Na-salt (PFDS-Na)	2806-15-7	ND	ND
40	Perfluoro-decane-sulfonic acid, K-salt (PFDS-K)	2806-16-8	ND	ND
41	Perfluoro-decane-sulfonic acid, Amonium- salt (PFDS-NH ₄)	67906-42-7	ND	ND
42	Perfluoro-nonanoic acid (PFNA)	375-95-1	ND	ND
43	Perfluoro-nonanoic acid, Na-salt (PFNA- Na)	21049-30-8	ND	ND
44	Ammonium perfluorononanoate (APFN)	4149-60-4	ND	ND
45	Perfluoro-decanoic acid (PFDA)	335-76-2	ND	ND
46	Perfluoro-decanoic acid, Na-salt (PFDA- Na)	3830-45-3	ND	ND
47	Perfluoro-decanoic acid, Amonium-salt (PFDA-NH ₄)	3108-42-7	ND	ND
48	Perfluoro-undecanoic acid (PFUnA)	2058-94-8	ND	ND
49	Perfluoro-dodecanoic acid (PFDoA)	307-55-1	ND	ND
50	Perfluoro-tridecanoic acid (PFTrDA)	72629-94-8	ND	ND

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No.	Substances	CAS No	Result ($\mu\text{g}/\text{m}^2$)	Limit ($\mu\text{g}/\text{m}^2$)
51	Perfluoro-tetradecanoic acid (PFTeDA)	376-06-7	ND	ND
52	Perfluoro-3-7-dimethyl octane-carboxylate (PF-3,7 DMOA)	172155-07-6	ND	ND
53	7H-Dodecafluoro heptane carboxylate (HPFHpA)	1546-95-8	ND	ND
54	2H,2H-Perfluoro decan carboxylate (H2PFDA)	882489-14-7	ND	ND
55	2H,2H,3H-Perfluoro-undecanoic acid (4HPFUnA)	34598-33-9	ND	ND
56	1H,1H,2H,2H-Perfluoro-octane-sulphonic acid (H4PFOS 6:2)	27619-97-2	ND	ND
57	1H,1H,2H,2H-Perfluorooctyl acrylate (6:2 FTA)	27527-29-6	ND	ND
58	1H,1H,2H,2H-Perfluorododecyl acrylate (10:2 FTA)	17741-60-5	ND	ND
59	1H,1H,2H,2H-Perfluorohexanol (4:2 FTOH)	2043-47-2	ND	ND
60	1H,1H,2H,2H-Perfluorooctanol (6:2 FTOH)	647-42-7	ND	ND
61	1H,1H,2H,2H-Perfluorododecanol (10:2 FTOH)	865-86-1	ND	ND
62	Fluorotelomer sulfonate (H4PFHxS)	757124-72-4	ND	

Remark:

mg/kg = ppm

Detection limit = $10 \mu\text{g}/\text{m}^2$ for No.7 to No.12 and No.57 to No.62; $1 \mu\text{g}/\text{m}^2$ for Others

ND = Not Detected

Tested component:

(1) DELIPAC (FOOD-OVEN-CUP)

Remark: As requested by the applicant, test was conducted on components listed in this report.

END OF THE TEST REPORT

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