

Test Report

No.: NGBHL22000243801

Date: Jan 30, 2022

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NINGBO FILIN PACK CO.,LTD
 DUNAO VILLAGE,YUNLONG TOWN,YINZHOU DISTRICT,NINGBO CITY,ZHEJIANG,CHINA

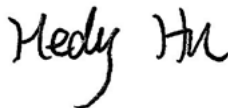
The following sample(s) was/were submitted and identified by/on behalf of the client as:

Sample Description : PAPER CUP ,PAPER FOOD CONTAINER ,PAPER BOWL
 SGS No. : NBHL2201000679CW
 Client Ref. Information : WHITE CARDBOARD PAPER,KRAFT PAPER, WHITE/BROWN PAPER,
 WHITE AND KRAFT PAPER WITH PE/PLA COATED

Sample Receiving Date : Jan 24, 2022
 Testing Period : Jan 24, 2022 to Jan 30, 2022
 Testing Performed : Follow selected test(s) as requested by client.

	Test Requirement	Conclusion
1	US Model Toxics in Packaging Legislation (TPCH: Toxics in Packaging Clearing House) - Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) content	Pass

Signed for and on behalf of
 SGS-CSTC Standards Technical Services Co., Ltd. Ningbo Branch



Hedy Hu
 Approved Signatory

scan to see the report



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Test Results:

Test Part Description:

SN ID.	Sample No.	SGS Sample ID	Description
SN1	A1	NGB22-0002438-0001.C001	Kraft paper box with PE coated
SN2	A2	NGB22-0002438-0001.C002	White paper cardboard with PLA coated

Remarks:

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) “-“ = Not Regulated

US Model Toxics in Packaging Legislation (TPCH: Toxics in Packaging Clearing House) - Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) content

Test Method: With reference to CEN/TS 15968:2010 and SGS in house method, analysis was performed by LC-MS or LC-MS-MS and GC-MS.

Test Item(s)	CAS No.	Limit	Units	MDL	A1	A2
Perfluorobutane Acid (PFBA)	375-22-4	Prohibited	mg/kg	1.0	ND	ND
Perfluoropentane Acid (PFPA)	2706-90-3	Prohibited	mg/kg	1.0	ND	ND
Perfluorohexane acid (PFHxA)	307-24-4	Prohibited	mg/kg	1.0	ND	ND
7H-Dodecanefluoroheptane Acid (HPFHpA)	1546-95-8	Prohibited	mg/kg	1.0	ND	ND
Perfluorobutane Sulfonate (PFBS)	375-73-5	Prohibited	mg/kg	1.0	ND	ND
Perfluorobutanesulfonate K-salt (PFBS-K)**	29420-49-3	Prohibited	mg/kg	1.0	ND	ND
Perfluoroheptane Acid (PFHpA)	375-85-9	Prohibited	mg/kg	1.0	ND	ND
1H,1H,2H,2H-Perfluorooctanesulphonic acid (H ₂ PFOS 6:2)	27619-97-2	Prohibited	mg/kg	1.0	ND	ND
Perfluorooctanoic acid (PFOA)	335-67-1	Prohibited	mg/kg	1.0	ND	ND



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Test Item(s)	CAS No.	Limit	Units	MDL	A1	A2
Ammonium pentadecafluorooctanoate (APFO)**	3825-26-1	Prohibited	mg/kg	1.0	ND	ND
Sodium perfluorooctanoate (PFOA-Na) **	335-95-5	Prohibited	mg/kg	1.0	ND	ND
Potassium perfluorooctanoate (PFOA-K) **	2395-00-8	Prohibited	mg/kg	1.0	ND	ND
Silver perfluorooctanoate (PFOA-Ag) **	335-93-3	Prohibited	mg/kg	1.0	ND	ND
Perfluorooctanoyl fluoride (PFOA-F) **	335-66-0	Prohibited	mg/kg	1.0	ND	ND
2H,2H-Perfluorodecane Acid (H ₂ PFDA)	882489-14-7	Prohibited	mg/kg	1.0	ND	ND
Perfluorohexane Sulfonate (PFHxS)	355-46-4	Prohibited	mg/kg	1.0	ND	ND
Perfluorohexanesulfonate Na-salt (PFHxS-Na) **	82382-12-5	Prohibited	mg/kg	1.0	ND	ND
Perfluorohexanesulfonate K-salt (PFHxS-K) **	3871-99-6	Prohibited	mg/kg	1.0	ND	ND
Perfluorononane Acid (PFNA)	375-95-1	Prohibited	mg/kg	1.0	ND	ND
Perfluorononanoate Na-Salt (PFNA-Na) **	21049-39-8	Prohibited	mg/kg	1.0	ND	ND
Perfluorononanoate ammonium salt (APFN) **	4149-60-4	Prohibited	mg/kg	1.0	ND	ND
Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)	172155-07-6	Prohibited	mg/kg	1.0	ND	ND
Perfluoroheptane Sulfonate (PFHpS)	375-92-8	Prohibited	mg/kg	1.0	ND	ND
Perfluoroheptanesulfonate Na-salt (PFHpS-Na) **	68555-66-8	Prohibited	mg/kg	1.0	ND	ND
Perfluorodecane Acid (PFDA)	335-76-2	Prohibited	mg/kg	1.0	ND	ND
Perfluorodecanoate Na-salt (PFDA-Na) **	3830-45-3	Prohibited	mg/kg	1.0	ND	ND



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Test Item(s)	CAS No.	Limit	Units	MDL	A1	A2
Perfluorodecanoate ammonium salt (APFDA) **	3108-42-7	Prohibited	mg/kg	1.0	ND	ND
2H,2H,3H,3H-Perfluoroundecanoic acid (4HPFUnA)	34598-33-9	Prohibited	mg/kg	1.0	ND	ND
Perfluorooctane sulfonates (PFOS)	1763-23-1	Prohibited	mg/kg	1.0	ND	ND
Perfluorooctane Sulfonamide (PFOSA)	754-91-6	Prohibited	mg/kg	1.0	ND	ND
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	Prohibited	mg/kg	1.0	ND	ND
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	Prohibited	mg/kg	1.0	ND	ND
2-(N-methylperfluoro-1-octanesulfonamido) - ethanol (MeFOSE)	24448-09-7	Prohibited	mg/kg	1.0	ND	ND
2-(N-ethylperfluoro-1-octanesulfonamido) - ethanol (EtFOSE)	1691-99-2	Prohibited	mg/kg	1.0	ND	ND
Perfluorooctane Sulfonyl fluoride (POSF) **	307-35-7	Prohibited	mg/kg	1.0	ND	ND
Potassium Perfluorooctanesulfonate (PFOS-K) **	2795-39-3	Prohibited	mg/kg	1.0	ND	ND
Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH ₄)**	29081-56-9	Prohibited	mg/kg	1.0	ND	ND
N-decyl-N,N-dimethyldecyl-1-aminium	251099-16-8	Prohibited	mg/kg	1.0	ND	ND
8-heptadecafluorooctane-1-sulfonate (PFOS-DDA) **						
Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(OH) ₂) **	70225-14-8	Prohibited	mg/kg	1.0	ND	ND



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Test Item(s)	CAS No.	Limit	Units	MDL	A1	A2
Perfluorooctanesulfonic acid, lithium salt (PFOS-Li) **	29457-72-5	Prohibited	mg/kg	1.0	ND	ND
Perfluorooctanesulfonic acid, tetraethylammonium salt (PFOS-N(C ₂ H ₅) ₄)**	56773-42-3	Prohibited	mg/kg	1.0	ND	ND
Perfluoroundecanoic Acid (PFUdA)	2058-94-8	Prohibited	mg/kg	1.0	ND	ND
Perfluorododecanoic Acid (PFDoA)	307-55-1	Prohibited	mg/kg	1.0	ND	ND
Perfluorodecane Sulfonate (PFDS)	126105-34-8 /335-77-3	Prohibited	mg/kg	1.0	ND	ND
Perfluorodecanesulfonate Na-salt (PFDS-Na)**	2806-15-7	Prohibited	mg/kg	1.0	ND	ND
Perfluorodecanesulfonate K-salt (PFDS-K) **	2806-16-8	Prohibited	mg/kg	1.0	ND	ND
Perfluoroaliphatic Dean-sulfonate salt of NH ₄ (PFDS-NH ₄)**	67906-42-7	Prohibited	mg/kg	1.0	ND	ND
Perfluorotridecanoic Acid (PFTrA)	72629-94-8	Prohibited	mg/kg	1.0	ND	ND
Perfluorotetradecanoic Acid (PFTeA)	376-06-7	Prohibited	mg/kg	1.0	ND	ND
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTS)	39108-34-4	Prohibited	mg/kg	1.0	ND	ND
Methyl perfluorooctanoate (Me-PFOA)	376-27-2	Prohibited	mg/kg	1.0	ND	ND
Ethyl perfluorooctanoate (Et-PFOA)	3108-24-5	Prohibited	mg/kg	1.0	ND	ND
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)	678-39-7	Prohibited	mg/kg	1.0	ND	ND
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9	Prohibited	mg/kg	1.0	ND	ND



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Test Item(s)	CAS No.	Limit	Units	MDL	A1	A2
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)	1996-88-9	Prohibited	mg/kg	1.0	ND	ND
Perfluoro-1-iodooctane (PFOI)	507-63-1	Prohibited	mg/kg	1.0	ND	ND
1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH)	2043-47-2	Prohibited	mg/kg	1.0	ND	ND
1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH)	647-42-7	Prohibited	mg/kg	1.0	ND	ND
1H,1H,2H,2H-Perfluorooctylacrylate (6:2 FTA)	17527-29-6	Prohibited	mg/kg	1.0	ND	ND
1H,1H,2H,2H-Perfluorododecyl acrylate (10:2 FTA)	17741-60-5	Prohibited	mg/kg	1.0	ND	ND
1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)	865-86-1	Prohibited	mg/kg	1.0	ND	ND
Conclusion					Pass	Pass

Notes:

- (1) ** The test result is based on the calculation of selected marker(s) and to the worst-case scenario.
- (2) The TPCH defines Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) as a class of chemical. There is no official list of PFAS from TPCH. Conclusion is made based on the tested 62 PFAS substances which is agreed by the client.



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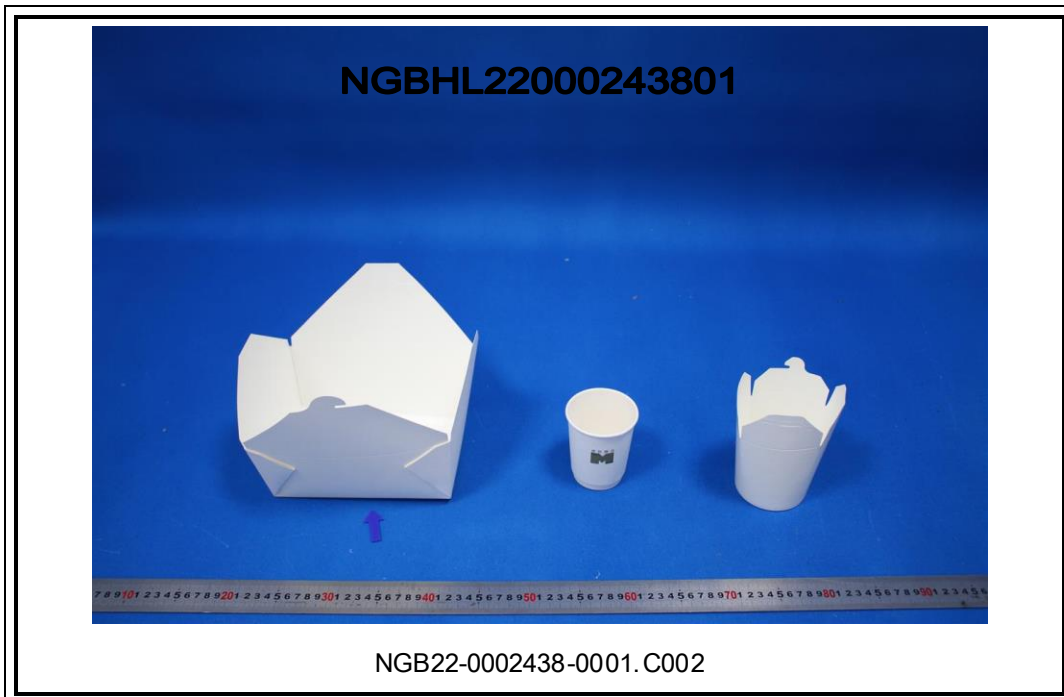
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