

Test Report

Date: JUL 18, 2022 Page: 1 of 14

STAY-WELL.DK APS
ALGADE 68C, 2, 5500, MIDDELFART DENMARK

Sample Description : PAPER STRAW
Country of Origin : CHINA
Country of Destination : DENMARK

Sample Receiving Date : JUN. 27, 2022
Testing Period : JUN. 27, 2022 TO JUL 18, 2022

Test Requested	Result
French Décret 2007-766 with amendments, DGCCRF MCDA n°4 (V02 – 01/01/2019) - Pentachlorophenol (PCP)	PASS
Dutch - Warenwetregeling verpakkingen en gebruiksartikelen (Commodity Act on Packaging and Consumer Products), Annex A, Chapter II -Specific migration of formaldehyde	PASS
Per-and polyfluoroalkyl substances (PFASs)	See Results
Paper and board used in food contact materials and articles, EDQM-Sensorial examination odour and taste test	PASS
Paper and board used in food contact materials and articles, EDQM-Transfer of antimicrobial agents	PASS

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.



Geng Lu
Authorized Signatory



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Test Report

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Test Conducted:

Test Part Description :

Specimen No.	Description	Material (claimed by the client)
SN1	Brown paper straw	Paper

Remarks :

- (1) mg/dm² = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C= degree Celsius
- (4) < = less than
- (5) MDL = Method Detection Limit
- (6) ND = Not Detected (< MDL)

French Décret 2007-766 with amendments, DGCCRF MCDA n°4 (V02 – 01/01/2019) - Pentachlorophenol (PCP)

Test Method : With reference to EN 647:1993 and ISO 15320:2011, analysis was performed by GC-MS.

Test Item(s)	Limit	Unit	MDL	001
Pentachlorophenol (PCP)	0.1	mg/kg	0.05	ND
Conclusion				PASS

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w =0) stated in ILAC-G8:09/2019.



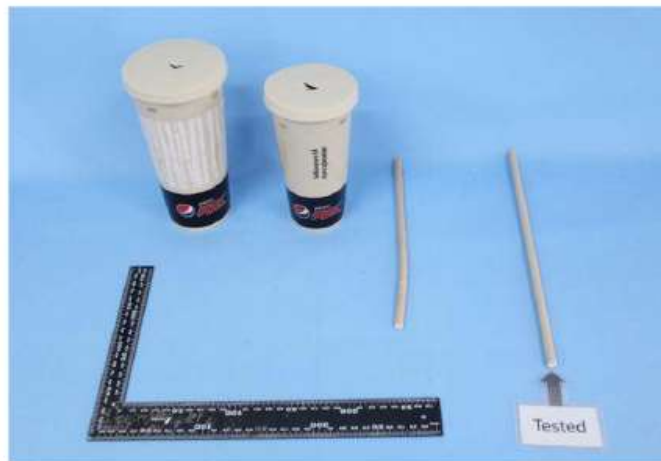
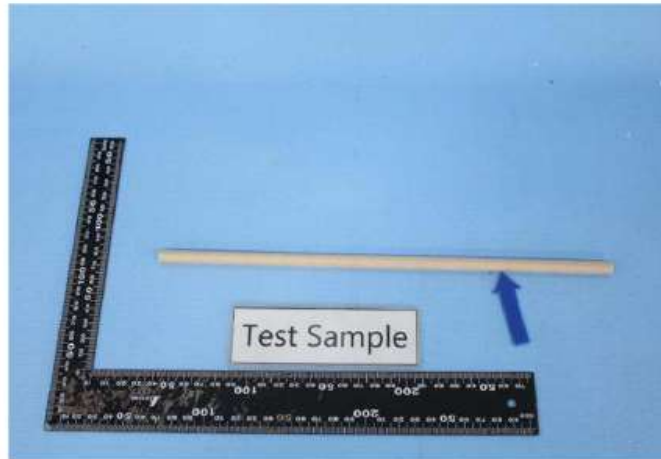
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Sample photo:



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Test Result(s) :

Test Part Description :

Specimen No.	Description	Material (claimed by the client)
SN1	Brown paper straw	Paper

Remarks :

- (1) mg/dm² = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C= degree Celsius
- (4) < = less than
- (5) MDL = Method Detection Limit
- (6) ND = Not Detected (< MDL)

Dutch - Warenwetregeling verpakkingen en gebruiksartikelen (Commodity Act on Packaging and Consumer Products), Annex A, Chapter II -Specific migration of formaldehyde

Test Method : With reference to EN 13130-1: 2004, analysis was performed by UV-Vis.

Sample 001

Simulant Used : 3% Acetic acid (W/V) aqueous solution

Test Condition : 70.0°C 0.5hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	First
Area/volume	-	dm ² /kg	-	6.0
Specific migration of formaldehyde	15	mg/kg	1.5	ND
Conclusion				PASS

Notes :

(1) Test condition & simulant were specified by client.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w =0) stated in ILAC-G8:09/2019.



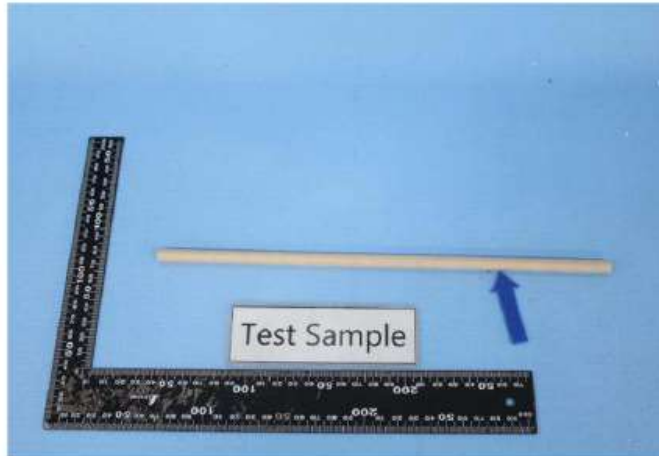
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Test Result(s) :

Test Part Description :

Specimen No.	Description
SN1	Brown paper straw

Remarks :

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

Per-and polyfluoroalkyl substances (PFASs)

Test Method : With reference to CEN/TS 15968:2010 and SGS in house method(SHTC-CHEM-SOP-775-T) , analysis was performed by LC-MS or LC-MS-MS and GC-MS

Test Item(s)	CAS NO.	Unit	MDL	001
Perfluorobutyric acid (PFBA)	375-22-4	mg/kg	0.01	ND
Perfluoropentanoic acid (PFPA)	2706-90-3	mg/kg	0.01	ND
Perfluorohexanoic acid (PFHxA)	307-24-4	mg/kg	0.01	ND
Ammonium perfluorohexanoate (PFHxA-NH ₄)**	21615-47-4	mg/kg	0.01	ND
7H-Dodecafluoroheptanoic acid (HPFHpA)	1546-95-8	mg/kg	0.01	ND
Perfluorobutanesulfonic acid (PFBS)	375-73-5	mg/kg	0.01	ND
Nonafluorobutanesulfonic Acid Hydrate (PFBS-H ₂ O)	59933-66-3	mg/kg	0.01	ND
**				
Perfluorobutanesulfonate K-salt (PFBS-K)**	29420-49-3	mg/kg	0.01	ND
Perfluoroheptanoic acid (PFHpA)	375-85-9	mg/kg	0.01	ND
1H,1H,2H,2H-Perfluorooctanesulphonic acid (H ₄ PFOS 6:2)	27619-97-2	mg/kg	0.01	ND
Perfluorooctanoic acid (PFOA)	335-67-1	mg/kg	0.01	ND
Sodium perfluorooctanoate (PFOA-Na)**	335-95-5	mg/kg	0.01	ND
Ammonium pentadecafluorooctanoate (APFO)**	3825-26-1	mg/kg	0.01	ND
Potassium perfluorooctanoate (PFOA-K)**	2395-00-8	mg/kg	0.01	ND
Silver perfluorooctanoate (PFOA-Ag)**	335-93-3	mg/kg	0.01	ND
Perfluorooctanoyl fluoride (PFOA-F)**	335-66-0	mg/kg	0.01	ND
Tetrabutylphosphonium 2H,2H-Perfluorodecanoate (H ₂ PFDA)	882489-14-7	mg/kg	0.01	ND
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	mg/kg	0.01	ND



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Test Item(s)	CAS NO.	Unit	MDL	001
Perfluorohexanesulfonate Na-salt (PFHxS-Na)**	82382-12-5	mg/kg	0.01	ND
Perfluorohexanesulfonate K-salt (PFHxS-K)**	3871-99-6	mg/kg	0.01	ND
Perfluorononanoic acid (PFNA)	375-95-1	mg/kg	0.01	ND
Perfluorononanoate Na-Salt (PFNA-Na)**	21049-39-8	mg/kg	0.01	ND
Perfluorononanoate ammonium salt (APFN)**	4149-60-4	mg/kg	0.01	ND
Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)	172155-07-6	mg/kg	0.01	ND
Perfluoroheptanesulfonic acid (PFHpS)	375-92-8	mg/kg	0.01	ND
Sodium pentadecafluoroheptyl sulfinate (PFHpS-Na)**	68555-66-8	mg/kg	0.01	ND
Potassium Perfluoroheptanesulfonate (PFHpS-K)**	60270-55-5	mg/kg	0.01	ND
Perfluorodecanoic acid (PFDA)	335-76-2	mg/kg	0.01	ND
Perfluorodecanoate Na-salt (PFDA -Na)**	3830-45-3	mg/kg	0.01	ND
Perfluorodecanoate ammonium salt (APFDA)**	3108-42-7	mg/kg	0.01	ND
2H,2H,3H,3H-Perfluoroundecanoic acid (4HPFUa)	34598-33-9	mg/kg	0.01	ND
Perfluorooctane sulfonates (PFOS)	1763-23-1	mg/kg	0.01	ND
Sodium Perfluorooctanesulfonate (PFOS-Na)**	4021-47-0	mg/kg	0.01	ND
Perfluorooctane Sulfonamide (PFOSA)	754-91-6	mg/kg	0.01	ND
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	mg/kg	0.01	ND
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	mg/kg	0.01	ND
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (MeFOSE)	24448-09-7	mg/kg	0.01	ND
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (EtFOSE)	1691-99-2	mg/kg	0.01	ND
Perfluorooctane Sulfonyl fluoride (POSF)**	307-35-7	mg/kg	0.01	ND
Potassium Perfluorooctanesulfonate (PFOS-K)**	2795-39-3	mg/kg	0.01	ND
Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH ₄)**	29081-56-9	mg/kg	0.01	ND
N-decyl-N,N-dimethyldecan-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctane-1-sulfonate (PFOS-DDA)**	251099-16-8	mg/kg	0.01	ND
Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(OH) ₂)**	70225-14-8	mg/kg	0.01	ND
Perfluorooctanesulfonic acid, lithium salt(PFOS-Li)**	29457-72-5	mg/kg	0.01	ND
Perfluorooctanesulfonic acid, tetraethylammonium salt (PFOS-N(C ₂ H ₅) ₄)**	56773-42-3	mg/kg	0.01	ND
Perfluoroundecanoic Acid (PFUdA)	2058-94-8	mg/kg	0.01	ND
Perfluorododecanoic Acid (PFDoA)	307-55-1	mg/kg	0.01	ND



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Perfluorodecane sulfonic acid (PFDS)	335-77-3/ 126105-34-8	mg/kg	0.01	ND
Perfluorodecanesulfonate Na-salt (PFDS-Na) **	2806-15-7	mg/kg	0.01	ND
Perfluorodecanesulfonate K-salt (PFDS-K)**	2806-16-8	mg/kg	0.01	ND
Perfluoroaliphatic Dean-sulfonate salt of NH ₄ (PFDS-NH ₄)**	67906-42-7	mg/kg	0.01	ND
Perfluorotridecanoic Acid (PFTrA)	72629-94-8	mg/kg	0.01	ND
Perfluorotetradecanoic Acid (PFTeA)	376-06-7	mg/kg	0.01	ND
1H,1H,2H,2H-Perfluorodecanesulphonic acid (8:2 FTS)	39108-34-4	mg/kg	0.01	ND
2H,2H-Perfluorodecanoic acid	27854-31-5	mg/kg	0.01	ND
Perfluorobutansulfonyl fluoride**	375-72-4	mg/kg	0.01	ND
N,N,N,-triethylethanaminium	25628-08-4	mg/kg	0.01	ND
1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulfonate(PFBS -N(C ₂ H ₅) ₄)**				
2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, its salts and its acyl halides (HPFO-DA)	62037-80-3/ 13252-13-6/ 67118-55-2/ 2062-98-8	mg/kg	0.01	ND
bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl) hydrogen phosphate(8:2diPAP)	678-41-1	mg/kg	0.01	ND
Perfluorooctadecanoic Acid (PFODA)	-	mg/kg	0.01	ND
Perfluorohexadecanoic Acid (PFHxDA)	67905-19-5	mg/kg	0.01	ND
N-Methylperfluoro-1-octanesulfonamidoacetic Acid	2355-31-9	mg/kg	0.01	ND
N-Ethyl-N-(perfluoro-1-octanesulfonyl) Glycine	2991-50-6	mg/kg	0.01	ND
Methyl perfluorooctanoate (Me-PFOA)	376-27-2	mg/kg	0.01	ND
Ethyl perfluorooctanoate (Et-PFOA)	3108-24-5	mg/kg	0.01	ND
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)	678-39-7	mg/kg	0.01	ND
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9	mg/kg	0.01	ND
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)	1996-88-9	mg/kg	0.01	ND
Perfluoro-1-iodooctane (PFOI)	507-63-1	mg/kg	0.01	ND
1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH)	2043-47-2	mg/kg	0.01	ND
1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH)	647-42-7	mg/kg	0.01	ND
1H,1H,2H,2H-Perfluorooctylacrylate (6:2 FTA)	17527-29-6	mg/kg	0.01	ND
1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA)	17741-60-5	mg/kg	0.01	ND
1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)	865-86-1	mg/kg	0.01	ND
1-Iodo-1H,1H,2H,2H-perfluorodecane (8:2 FTI)	2043-53-0	mg/kg	0.1	ND



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1H,1H,2H,2H-Perfluorooctyl methacrylate (6:2 FTMAC)	2144-53-8	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorodecyltriethoxysilane (PFSI)	101947-16-4	mg/kg	0.1	ND
Sum of PFOA & its salts and PFOA related substances		mg/kg	-	ND

Notes :

** The test result is based on the calculation of selected marker(s) and to the worst-case scenario. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ($w = 0$) stated in ILAC-G8:09/2019.



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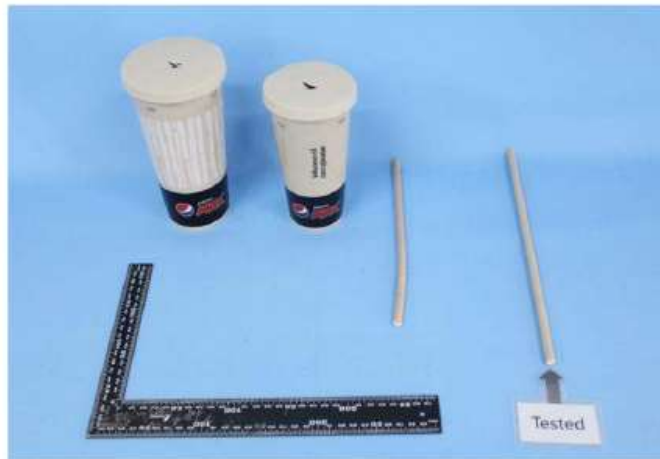
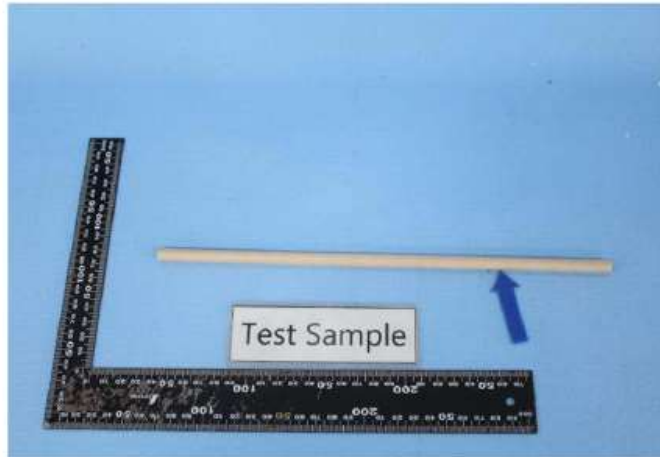
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Test Result(s) :

Test Part Description :

Specimen No.	Description	Material (claimed by the client)
SN1	Brown paper straw	Paper

Remarks :

- (1) mg/dm² = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C= degree Celsius
- (4) < = less than
- (5) MDL = Method Detection Limit
- (6) ND = Not Detected (< MDL)

Paper and board used in food contact materials and articles, EDQM-Sensorial examination odour and taste test

Test Method : With reference to DIN 10955: 2004
No. of panelist: 6

Test Item(s)	Limit	001
Test media	-	DW
Test time (hr(s))	-	2
Temperature(°C)	-	70
Sensorial examination odour (Point scale)	2.5	0
Sensorial examination taste (Point scale)	2.5	0

Conclusion

PASS

Notes :

- Intensity scale (rounded at 0.5):
- 0 – no perceptible difference
- 1 – just perceptible difference
- 2 – slight difference
- 3 – marked difference
- 4 – strong difference
- DW= Distilled water



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Paper and board used in food contact materials and articles, EDQM-Transfer of antimicrobial agents

Test Method : With reference to EN 1104: 2018

<u>Test Item(s)</u>	<u>Limit</u>	<u>001</u>
Bacillus subtilis ATCC No. 6633	★	Absent
Aspergillus niger ATCC No.6275	★	Absent
Conclusion		PASS

Notes :

- (1) ★ = Absence of zone inhibition
 - (2) Absent denotes absence of Antimicrobial constituents which inhibits the growth of tested bacteria and fungus
- Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ($w = 0$) stated in ILAC-G8:09/2019.



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2. The declaration of conformity is based on non-binary acceptance decision rules with guard band, and the guard band length parameter is 0. When the measured value falls in the guard band limit, the declaration of conformity is "Conditional PASS" or "Conditional FAIL".



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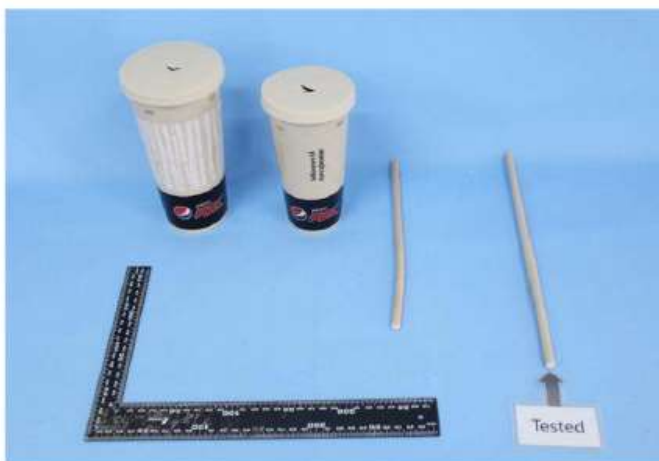
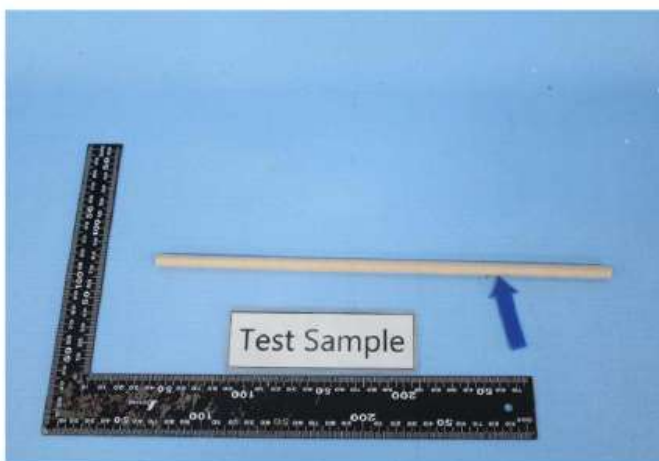
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