Test Report

Applicant: Dalian Shengfeng Doors CO., Ltd.

Address: NO.F-YTL-2 Liujia Village, Daweijia Block, Jinzhou District, Dalian City, Liaoning Province China

The following sample(s) and information were submitted and identified by the applicant

Sample Name:	Cutlery set
XNO Report Number:	XNO241017075DX1-3
Model No.:	SF003
Manufacturer:	Dalian Shengfeng Doors CO., Ltd.
Manufacturer Address:	NO.F-YTL-2 Liujia Village, Daweijia Block, Jinzhou District, Dalian City, Liaoning Province China
Main Substance:	Paper + Wood
Sample Received Date:	Oct 17, 2024
Testing Period:	Oct 17, 2024 to Nov 06, 2024
Testing Requirements:	Selected test(s) as requested by client
Test Method:	Please refer to next page(s)
Test Results:	Please refer to next page(s)

Authorized signature

Fox Rong

Technical supervisor

Approved Signatory

Guangzhou Supreme Technology & Testing Service Co., Ltd.

Test Report

Summary of test results:

Test Requested	Conclusion
Regulation (EC) No 1935/2004 & Council of Europe Resolution AP(2004) 2 & AP (2002) 1 & German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB), Section 30 & 31 with its amendments & Regulation (EU) No 10/2011 & LFGB § 64 BVL B 82.02	
Sensorial Examination Odour and Taste Test	**PASS**
Specific Migration of Bisphenol A(BPA)	**PASS**
Extractable heavy metals (Lead, Cadmium, Aluminum)	**PASS**
Phthalates content	**PASS**
Migration of Fluorescent Whitening Agent	**PASS**
Migration of colorant	**PASS**
Specific migration for Primary Aromatic Amines	**PASS**
Primary Aromatic Amines	**PASS**
Specific Migration of Formaldehyde	**PASS**
Total arsenic	**PASS**
Pentachlorophenol (PCP) content	**PASS**
Per- and Polyfluoroalkyl Substances (PFAS) Content	**PASS**

Test Result(s):

Sensorial examination odour and taste test

Test Method: With reference to DIN10955:2024-01.

Odour test condition: 23℃ 24 hours;

Taste test condition: 23℃ 24 hours;

Test media: Distilled water;

No.of panelist: 6

Test Item(s)	Limit	Result
		Entirety
Sensorial examination odour (Point scale)	2.5	1.0
Sensorial examination taste (Point scale)	2.5	0.0

Remarks:

Intensity scale (rounded at 0.5):

0 - no perceptible difference

1 - just perceptible difference

2 - slight difference

3 - marked difference

4 - strong difference

Specific migration of Bisphenol A(BPA)

Test Method: CEN/TS 13130-13:2005, analysis was performed by LC-MS/MS.

Test Item(s)	Test Condition	Limit	Unit	Result		
				No.1	No.3	No.2
Bisphenol A	3% Acetic Acid 40℃, 0.5h	0.05	mg/kg	<0.01	<0.01	<0.01

Remarks: 1. mg/kg = milligram per kilogram = ppm

2. < = less than

Extractable heavy metals (Lead, Cadmium, Aluminum)

Test Method: EN 645:1993, analyzed by ICP-OES.

Test Item	Limit	Unit	MDL	Result		
				No.1	No.3	No.2
Extractable Lead	0.01	mg/kg	0.01	N.D.	N.D.	N.D.
Extractable Cadmium	0.005	mg/kg	0.005	N.D.	N.D.	N.D.
Extractable Aluminum	1	mg/kg	0.5	N.D.	N.D.	N.D.

Phthalates content

Test Method: EN 14372:2004 Clause 5.4.2, 3 6.3.2, analyzed by Gas Chromatography with Mass Spectrometry(GC-MS).

Test Item(s)	CAS No.	Limit	Unit	MDL	Result		
					No.1	No.3	No.2
Dibutyl phthalate (DBP)	84-74-2	0.3	mg/kg	0.1	N.D.	N.D.	N.D.
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	1.5	mg/kg	0.5	N.D.	N.D.	N.D.
Diisooctyl phthalate(DIBP)	84-69-5	0.3	mg/kg	0.1	N.D.	N.D.	N.D.
Sum of DBP and DIBP	-	0.3	mg/kg	-	N.D.	N.D.	N.D.

Remarks: 1. 1mg/kg = 0.0001% = 1ppm
2. MDL = Method Detection Limit
3. N.D. = Not Detected (Less than MDL)

Migration of Fluorescent Whitening Agent

Test Method: EN 648:2018

Test Item(s)	Test Condition	Limit	Result		
			No.1	No.3	No.2
Fluorescent Whitening Agent	3% Acetic acid 23℃, 4h	Grade 5	Grade 5	Grade 5	Grade 5
Fluorescent Whitening Agent	Water 23℃, 4h	Grade 5	Grade 5	Grade 5	Grade 5
Fluorescent Whitening Agent	Olive oil 23℃, 4h	Grade 5	Grade 5	Grade 5	Grade 5

Migration of colorant

Test Method: EN 646:2018

Test Item(s)	Test Condition	Limit	Result		
			No.1	No.3	No.2
colorant	3% Acetic acid 23℃, 4h	Grade 5	Grade 5	Grade 5	Grade 5
	Distilled water 23℃, 4h	Grade 5	Grade 5	Grade 5	Grade 5
	Olive oil 23℃, 4h	Grade 5	Grade 5	Grade 5	Grade 5

Remarks: Color change grade of fluorescent matter

5 Negligible Or No Change

4 Slightly Changed

3 Noticeably Changed

2 Considerably Changed

1 Much Changed

Specific migration of Primary Aromatic Amines

Test Method: EN 13130-1:2004, analyzed by LC-MS/MS.

Test media: 3% Acetic Acid

Test temperature/ time: 40℃, 0.5hr(s)

Test Item(s)		CAS No.	Limit	Unit	Result		
					No.1	No.3	No.2
1	4-aminodiphenyl	92-67-1	0.002	mg/kg	<0.002	<0.002	<0.002
2	Benzidine	92-87-5	0.002	mg/kg	<0.002	<0.002	<0.002
3	4-chloro-o-toluidine	95-69-2	0.002	mg/kg	<0.002	<0.002	<0.002
4	2-naphthylamine	91-59-8	0.002	mg/kg	<0.002	<0.002	<0.002
5	o-aminoazotoluene	97-56-3	0.002	mg/kg	<0.002	<0.002	<0.002
6	2-amino-4-nitrotoluene	99-55-8	0.002	mg/kg	<0.002	<0.002	<0.002
7	p-chloroaniline	106-47-8	0.002	mg/kg	<0.002	<0.002	<0.002
8	2.4-diaminoanisole	615-05-4	0.002	mg/kg	<0.002	<0.002	<0.002
9	4,4'-diaminodiphenylmethane	101-77-9	0.002	mg/kg	<0.002	<0.002	<0.002
10	3,3-dimethoxybenzidine	119-90-4	0.002	mg/kg	<0.002	<0.002	<0.002
11	3,3'-dimethylbenzidine	119-93-7	0.002	mg/kg	<0.002	<0.002	<0.002
12	4,4'-Methylene-bis(2-methylaniline)	838-88-0	0.002	mg/kg	<0.002	<0.002	<0.002
13	p-cresidine	120-71-8	0.002	mg/kg	<0.002	<0.002	<0.002
14	4,4-methylene-bis-(2-chloroaniline)	101-14-4	0.002	mg/kg	<0.002	<0.002	<0.002
15	4,4'-oxydianiline	101-80-4	0.002	mg/kg	<0.002	<0.002	<0.002
16	4,4'-thiodianiline	139-65-1	0.002	mg/kg	<0.002	<0.002	<0.002
17	o-toluidine	95-53-4	0.002	mg/kg	<0.002	<0.002	<0.002
18	2,4-diaminotoluene	95-80-7	0.002	mg/kg	<0.002	<0.002	<0.002
19	2,4,5-trimethylaniline	137-17-7	0.002	mg/kg	<0.002	<0.002	<0.002
20	2-methoxyaniline	90-04-0	0.002	mg/kg	<0.002	<0.002	<0.002
21	4-aminoazobenzene	60-09-3	0.002	mg/kg	<0.002	<0.002	<0.002
22	4-aminoazobenzene	60-09-3	0.002	mg/kg	<0.002	<0.002	<0.002

Remarks:

1. mg/kg = milligram per kilogram = ppm
2. 1mg/kg = 0.0001%=1ppm
3. < = less than

Sum of Primary Aromatic Amines

Test Method: EN 17163:2019, analysis was performed by LC-MS/MS.

Test Item(s)	Limit	Unit	MDL	Result		
				No.1	No.3	No.2
Sum of Primary Aromatic Amines	0.01	mg/kg	0.002	N.D.	N.D.	N.D.

Remarks:

1. 1mg/kg = 0.0001%= 1ppm
2. MDL=Method Detection Limit
3. N.D. = Not Detected(less than MDL)

Specific Migration of Formaldehyde

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

Test Item(s)	Test Condition	Limit	Unit	Result		
				No.2	No.1	No.3
Formaldehyde	3% Acetic acid 40℃, 0.5h	1	mg/dm^2	0.36	0.49	0.68

Remarks:

1. mg/dm^2 = milligram per square decimeter
2. < = less than

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Total arsenic

Test Method: XNO in-house method, analyzed by ICP-OES.

Test Item(s)	Limit	Unit	MDL	Result		
				No.2	No.1	No.3
Arsenic	Absent	mg/kg	2	N.D.	N.D.	N.D.

Pentachlorophenol (PCP) content

Test Method: XNO in-house method, analyzed by Gas Chromatograph with Mass Spectrometer(GC-MS).

Test Item(s)	Limit	Unit	MDL	Result		
				No.2	No.1	No.3
Pentachlorophenol (PCP)	0.15	mg/kg	0.05	N.D.	N.D.	N.D.

Remarks:

1. 1mg/kg = 0.0001%=1ppm
2. MDL = Method Detection Limit
3. N.D. = Not Detected (< MDL)

Per- and Polyfluoroalkyl Substances (PFAS)

Test Method: CEN/TS 15968:2010, analyzed by GC-MS, LC-MS/MS.

Test Item(s)	CAS No.	Limit	Unit	MDL	Result		
					No.1	No.3	No.2
Perfluorononane Acid (PFNA), its salts	-	-	mg/kg	0.025	N.D.	N.D.	N.D.
Perfluorononane Acid (PFNA)	375-95-1	-	mg/kg	0.025	N.D.	N.D.	N.D.
Perfluorononanoate Na Salt (PFNA-Na)	21049-39-8	-	mg/kg	0.025	N.D.	N.D.	N.D.
Perfluorononanoate ammounium salt (APFN)	4149-60-4	-	mg/kg	0.025	N.D.	N.D.	N.D.
Perfluoro-3.7-dimethyloctanoic Acid (PF-3.7-DMOA)	172155-07-6	-	mg/kg	0.025	N.D.	N.D.	N.D.
Perfluorodecane Acid (PFDA). its salts	-	-	mg/kg	0.025	N.D.	N.D.	N.D.
Perfluorodecane Acid (PFDA)	335-76-2	-	mg/kg	0.025	N.D.	N.D.	N.D.
Perfluorodecanoate Na-salt (PFDA-Na)	335-76-2	-	mg/kg	0.025	N.D.	N.D.	N.D.
Perfluorodecanoate ammonium salt (APF DA)	3108-42-7	-	mg/kg	0.025	N.D.	N.D.	N.D.
Perfluoroundecanoic Acid (PFUdA)	2058-94-8	-	mg/kg	0.025	N.D.	N.D.	N.D.
Perfluorododecanoic Acid (PFDoA), its salts	-	-	mg/kg	0.025	N.D.	N.D.	N.D.
Perfluorododecanoic Acid (PFDoA)	307-55-1	-	mg/kg	0.025	N.D.	N.D.	N.D.
Ammonium perfluorodecanoate	3793-74-6	-	mg/kg	0.025	N.D.	N.D.	N.D.
Perfluorotetradecanoic Acid (PFTeA)	72629-94-8	-	mg/kg	0.025	N.D.	N.D.	N.D.
Perfluorocarboxylic acids containing 9 to 14 carbon atoms in the chain (C9-C14 PFCAs) their salts	-	0.025	mg/kg	0.025	N.D.	N.D.	N.D.
Perfluorodecane Sulfonate (PFDS) its salts	-	-	mg/kg	0.025	N.D.	N.D.	N.D.
Perfluorodecane Sulfonate (PFDS)	335-77-3	-	mg/kg	0.025	N.D.	N.D.	N.D.
Perfluorodecanesulfonate Na-salt (PFDS-Na)	2806-15-7	-	mg/kg	0.025	N.D.	N.D.	N.D.
Perfluorodecanesulfonate K-salt (PFDS-k)	2806-16-8	-	mg/kg	0.025	N.D.	N.D.	N.D.
Perfluoroaliphatic Dean-sulfonate salt of NH4 (PFDS-NH)	67906-42-7	-	mg/kg	0.025	N.D.	N.D.	N.D.
Perfluoro dodecyl acrate(10:2 FTA)	17741-60-5	-	mg/kg	0.025	N.D.	N.D.	N.D.
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)	678-39-7	-	mg/kg	0.025	N.D.	N.D.	N.D.
1H,1H,2H,2H-Perfuoro -1-dodecanol (10:2 FTOH)	865-86-1	-	mg/kg	0.025	N.D.	N.D.	N.D.
1-odine-1H,1H,2H.2Hperfluorodecane (8:2 FiT)	2043-53-0	-	mg/kg	0.025	N.D.	N.D.	N.D.

Test Report

Test Item(s)	CAS No.	Limit	Unit	MDL	Result		
					No.1	No.3	No.2
1H.1H,2H,2H-Perfluorodecyltriethoxysilane (PFSI)	101947-16-4	-	mg/kg	0.025	N.D.	N.D.	N.D.
2H.2H,3H,3H-Perfluoroundecanoic acid (4HPFUnA)	34598-33-9	-	mg/kg	0.025	N.D.	N.D.	N.D.
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTS)	39108-34-4	-	mg/kg	0.025	N.D.	N.D.	N.D.
1H,1H,2H,2H-Perfluorodecyl acnylate(8:2 FTA)	27905-45-9	-	mg/kg	0.025	N.D.	N.D.	N.D.
1H.1H.2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)	1996-88-9	-	mg/kg	0.025	N.D.	N.D.	N.D.
2H,2H-perfluorodecanoic acid, its salts and its derivatives	-	-	mg/kg	0.025	N.D.	N.D.	N.D.
2H,2H-perfluorodecanoic acid	27854-31-5	-	mg/kg	0.025	N.D.	N.D.	N.D.
Tetrabutyl phosphonium 2H,2H-Peruorodecanoate	882489-14-7	-	mg/kg	0.025	N.D.	N.D.	N.D.
C9-C14 PFCA-related substances	-	0.26	mg/kg	0.025	N.D.	N.D.	N.D.
Perfluorooctanoic acid (PFOA) and its salts*	-	0.025	mg/kg	0.025	N.D.	N.D.	N.D.
PFOA-related substances	-	1.0	mg/kg	-	N.D.	N.D.	N.D.
Perfluorohexane sulfonic acid (PFHxS), its salts	-	0.025	mg/kg	0.025	N.D.	N.D.	N.D.
PFHxS-related compounds	-	1.0	mg/kg	-	N.D.	N.D.	N.D.

Remarks:

1. 1mg/kg = 0.0001% = 1ppm
2. MDL = Method Detection Limit
3. N.D. = Not Detected (Less than MDL)
4. "-" = Not Regulated
5. PFOA and its salts* including PFOA (CAS No.335-67-1), APFO (CAS No.3825-26-1), PFOA-Na (CAS No.335-95-5), PFOA-K (CAS No.2395-00-8), PFOA-Ag (CAS No.335-93-3) and PFOA-F (CAS No. 335-66-0). The result of PFOA is used to represent PFOA and its salts.
6. Perfluorooctane sulfonates (PFOS) and its salts * including PFOS (CAS No.--), POSF (CAS No.307-35-7), PFOS-K (CAS No.2795-39-3), PFOS-NH_4 (CAS No.29081-56-9), PFOS-N (C10H21)2(CH3)2(CAS No.251099-16-8), PFOS-NH2(C2H4OH)2(CAS No.70225-14-8), PFOS-Li (CAS No.29457-72-5), PFOS-N(CH5)4(CAS No.56773-42-3) and PFOS-Na (CAS No.4021-47-0). The result of PFOS is used to represent PFOS and its salts.
7. Substances in Annex I of European Regulation POPs (EU) 2019/1021 are prohibited in preparations and constituents of articles unless otherwise specified.
8. Exemptions: Perfluorooctane sulfonates (PFOS) and derivatives (acid, metal salt, halide, amide,

and other derivatives including polymers)≤ 10 mg/kg for preparations,<0.1%(w/w) for articles and < 1 ug/m2 for textiles and coated materials.

9. The chemical analysis of substances is performed by means of currently available analytical techniques against substances laid down in Test Requested.

Note: As specified by applicant, to test content in the selected materials of the submitted samples. The test results are only responsible for the submitted sample. The test report is only for customer research, teaching, internal quality control, product development and other purposes, for reference only.

Declaration: Report XNO241017075DX1-2 was repealed and replaced by Report XNO241017075DX1-3. (All items are tested at the test point (No.1-No.3) according to customer requirements on Oct 28, 2024.)

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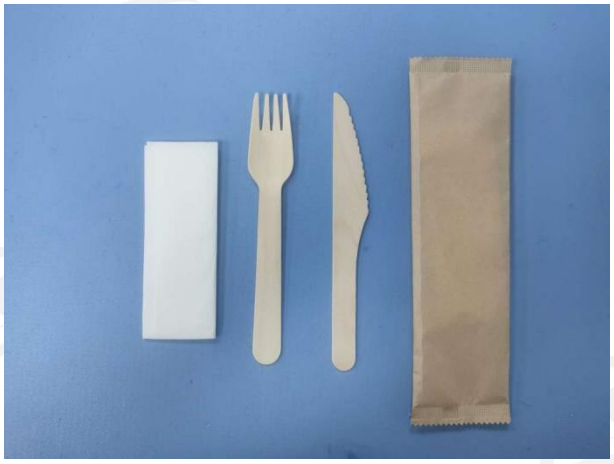
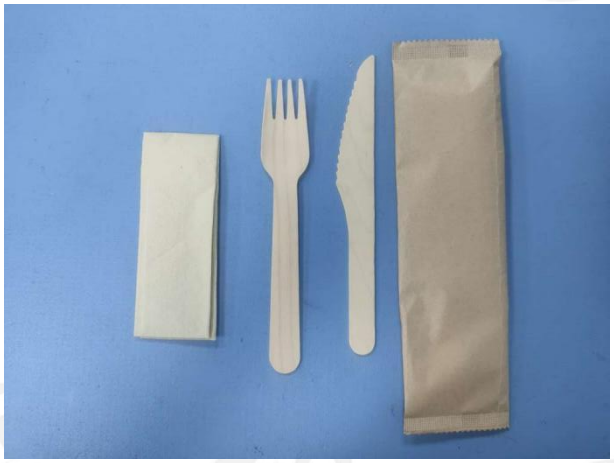
Test Report

Sample Description:

Specimen No.	Description	Material (claimed by the client)
1	Paper products (outer packing)	Paper
2	Woodwork (knife, fork and spoon)	Wood
3	Paper products (napkin)	Paper

Sample Photo:



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*** End of Report ***

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