

Test report

T-25441397-11-R1



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Overall result

Pass

Please refer to the following pages for test result summary and notes.

Client information

Client: VANJOIN GROUP
Address: Floor 14, Golden Block, Poly Champagne,
International Building, Hanxi No.1 Road,
Qiaokou District, Wuhan, Hubei, China



Sample information

Description: 1.250ml HDPE 2.500ml HDPE 3.750ml HDPE 4.1.9L HDPE
Country of origin: - Labeled age grade: -
Country of distribution: - Tested age grade: -
Material / composition: 1-4.HDPE
Quantity submitted: 1 pc per style

General information

Sample receipt date: 07-Aug-2025

Report date: 18-Aug-2025

Testing period: 07-Aug-2025 to 18-Aug-2025

QIMA (Hangzhou) Testing Co., Ltd.

Jeremy Xu

Chemical Laboratory Manager



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Result summary

At the request of the client, the following test were conducted:

Test(s) conducted	Conclusion
Client's requirement, Bisphenol A content	Pass
Regulation (EC) No. 1907/2006 REACH Annex XVII as amended, Item 51 and 52 Phthalates –Mouthable (DBP, BBP, DEHP, DIBP, DnOP, DINP, DIDP)	Pass
TPCH-Packaging-Per-and Polyfluoroalkyl Substances (PFAS) Content ^φ	Pass

Note:

Test(s) marked with ^φ indicate tests performed in external laboratories.

By client's request, selected component was conducted for all chemical testing.



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Detailed results

Client's requirement, Bisphenol A content

Test Method: In-House Method

Analytical Method: Liquid Chromatography-Mass Spectrometer Mass Spectrometer (LC-MS/MS)

Specimen No.	C1	---	---	---	Client's limit (mg/kg)
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Bisphenol A (BPA)	80-05-7	ND	---	---	Not Detected
Conclusion		Pass	---	---	

Note:

mg/kg=milligram per kilogram

ND=Not Detected (Reporting limit = 0.1mg/kg)





Detailed results

Regulation (EC) No. 1907/2006 REACH Annex XVII as amended, Item 51 and 52 Phthalates – Mouthable (DBP, BBP, DEHP, DIBP, DnOP, DINP, DIDP)

Test Method: CPSC-CH-C1001-09.4
Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		C1	---	---	Limit (% w/w)
Test Item	CAS No.	Result (% w/w)	Result (% w/w)	Result (% w/w)	
Dibutyl Phthalate (DBP)	84-74-2	ND	---	---	0.1
Benzyl Butyl Phthalate (BBP)	85-68-7	ND	---	---	0.1
Di-(2-Ethylhexyl) Phthalate (DEHP)	117-81-7	ND	---	---	0.1
Diisobutyl Phthalate (DIBP)	84-69-5	ND	---	---	0.1
Sum of DBP, BBP, DEHP, DIBP		ND	---	---	0.1
Di-n-Octyl Phthalate (DnOP)	117-84-0	ND	---	---	
Diisononyl Phthalate (DINP)	28553-12-0 68515-48-0	ND	---	---	
Diisodecyl Phthalate (DIDP)	26761-40-0 68515-49-1	ND	---	---	
Sum of DnOP, DINP, DIDP		ND	---	---	0.1
Conclusion		Pass	---	---	

Note:

% w/w = Percent by weight

LT = Less than

ND = Not detected (Reporting Limit = 0.015 % w/w)





Detailed results

TPCH-Packaging-Per-and Polyfluoroalkyl Substances (PFAS) Content[†]

Test Method: With reference to EN 17681-1:2025
 Analytical Method: Liquid Chromatography with Mass Spectrometry Mass Spectrometry (LC-MS-MS),
 Gas Chromatography with Mass Spectrometry (GC-MS)

Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds

Specimen No.	C1	---	---	---	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Perfluorooctanoic acid (PFOA), its salts*	ND	---	---	---	ND
PFOA-related compounds*	ND	---	---	---	ND
Conclusion	Pass	---	---	---	

Perfluorooctane sulfonate (PFOS) and its derivatives

Specimen No.	C1	---	---	---	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Perfluorooctane sulfonate (PFOS) and its derivatives*	ND	---	---	---	ND
Conclusion	Pass	---	---	---	

C9-C14 PFCAs, its salts and C9-C14 PFCAs related compounds

Specimen No.	C1	---	---	---	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
C9-C14 PFCAs acid and its salts*	ND	---	---	---	ND
C9-C14 PFCAs related compounds *	ND	---	---	---	---
Conclusion	Pass	---	---	---	

Others per- and polyfluoroalkyl substances (PFAS)

Specimen No.	C1	---	---	---	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Others per- and polyfluoroalkyl substances (PFAS)*	ND	---	---	---	ND
Conclusion	Pass	---	---	---	





*Refer to List of Per-and Polyfluoroalkyl Substances (PFAS)

Note:
 mg/kg (Milligrams per kilogram) = ppm (Parts per million)
 LT = Less than
 ND = Not Detected. Result value is less than reporting limit (RL: PFOA = 0.025 mg/kg; PFOA-related compounds = 1 mg/kg; PFOS = 1 mg/kg; C9-C14 PFCAs acid and its salts = 0.025 mg/kg; C9-C14 PFCAs related compounds = 0.1 mg/kg; others PFAS = 1 mg/kg).

List of Per-and Polyfluoroalkyl Substances (PFAS)

Per-and Polyfluoroalkyl Substances (PFAS) Content		
Chemical Substance	Abbreviation	CAS No.
Perfluorooctanoic acid (PFOA), its salts		
Perfluorooctanoic acid	PFOA	335-67-1
Perfluorooctanoyl fluoride	PFOA-F	335-66-0
Silver perfluorooctanoate	PFOA-Ag	335-93-3
Sodium perfluorooctanoate	PFOA-Na	335-95-5
Potassium perfluorooctanoate	PFOA-K	2395-00-8
Ammonium pentadecafluorooctanoate	APFO	3825-26-1
PFOA-related compounds		
Methyl perfluorooctanoate	Me-PFOA	376-27-2
Ethyl perfluorooctanoate	Et-PFOA	3108-24-5
1H,1H,2H,2H-perfluoro-1-decanol	8:2 FTOH	678-39-7
1H,1H,2H,2H-Perfluorodecyl methacrylate	8:2 FTMA	1996-88-9
1H,1H,2H,2H-perfluorodecylacrylate	8:2 FTAC	27905-45-9
1H,1H,2H,2H-Perfluoro-1-decanol	8:2 FTS	39108-34-4
Perfluoro-3,7-dimethyloctanoic acid	PF-3,7-DMOA	172155-07-6
2H,2H,3H,3H-Perfluoroundecanoic Acid	H4PFUnA	34598-33-9
Tetrabutylphosphonium 2H,2H-Perfluorodecanoate	H2PFDA	882489-14-7
Perfluorooctane sulfonate (PFOS) and its derivatives		
Perfluorooctane sulfonic acid	PFOS	1763-23-1
Perfluorooctane sulfonyl fluoride	PFOSF/POSF	307-35-7
Perfluorooctane sulfonamide	PFOSA	754-91-6
N-Ethyl perfluorooctane sulfonamide ethanol	N-Et-FOSE	1691-99-2
Perfluorooctanesulfonic acid, potassium salt	PFOS-K	2795-39-3
N-Ethyl perfluorooctane sulfonamide	N-Et-FOSA	4151-50-2
N-Methyl perfluorooctane sulfonamide ethanol	N-Me-FOSE	24448-09-7
Perfluorooctanesulfonic acid, lithium salt	PFOS-Li	29457-72-5
Perfluorooctanesulfonic acid, ammonium	PFOS-NH4	29081-56-9
N-Methyl perfluorooctane sulfonamide	N-Me-FOSA	31506-32-8
Perfluorooctanesulfonic acid, tetraethylammonium salt	PFOS-N(C ₂ H ₅) ₄) ₂	56773-42-3
Perfluorooctane sulfonate, diethanolamine salt	PFOS-NH(OH) ₂	70225-14-8
Didecylidimethylammonium perfluorooctane sulfonate	PFOS-N(C ₁₀ H ₂₁) ₂ (CH ₃) ₂	251099-16-8
Piperidin-1-ium perfluorooctane-1-sulfonate		71463-74-6
Magnesium bis(perfluorooctane-1-sulfonate)		91036-71-4
Perfluorooctanesulfonate Sodium	PFOS-Na	4021-47-0
C9-C14 PFCAs acid and its salts		
Perfluorononanoic acid	PFNA	375-95-1
Perfluorodecanoic acid	PFDA	335-76-2
Perfluoroundecanoic acid	PFUnDA	2058-94-8





Per-and Polyfluoroalkyl Substances (PFAS) Content		
Perfluorododecanoic acid	PFDoDA	307-55-1
Perfluorotridecanoic acid	PFTTrDA	72629-94-8
Perfluorotetradecanoic acid	PFTTeDA	376-06-7
Sodium perfluorononanoate	PFNA-Na	21049-39-8
Ammonium perfluorononanoate	PFNA-NH4	4149-60-4
Sodium Perfluorodecanoate	PFDA-Na	3830-45-3
Ammonium perfluorodecanoate	PFDA-NH4	3108-42-7
Ammonium tricosafuorododecanoate	PFDoDA-NH4	3793-74-6
C9-C14 PFCAs related compounds		
1H,1H,2H,2H-perfluoro-1-dodecanol	10:2 FTOH	865-86-1
1H,1H,2H,2H- perfluorododecylacrylate	10:2FTA	17741-60-5
Perfluorodecanesulfonic acid	PFDS	335-77-3 / 126105-34-8
Perfluorodecane sulfonic Na-salt	PFDS-Na	2806-15-7
Perfluorodecane sulfonic K-salt	PFDS-K	2806-16-8
Perfluorodecane sulfonic - NH4 salt	PFDS-NH4	67906-42-7
Others per- and polyfluoroalkyl substances (PFAS)		
Perfluorohexanoic acid	PFHxA	307-24-4
Perfluoroheptanoic acid	PFHpA	375-85-9
Perfluoropentanoic acid	PFPeA	2706-90-3
7H-Perfluoroheptaonic acid	7HPFHpA	1546-95-8
Perfluorobutanoic acid	PFBA	375-22-4
Perfluorobutanesulfonic acid	PFBS	375-73-5/ 59933-66-3
Perfluorobutane sulfonate K-salt	PFBS-K	29420-49-3
Perfluoroheptane sulfonic acid	PFHpS	375-92-8
Perfluoroheptane sulfonic acid Na-salt	PFHpS-Na	68555-66-8
Perfluorohexane sulfonic acid	PFHxS	355-46-4
Perfluorohexanesulfonic potassium salt	PFHxS-K	3871-99-6
Perfluorohexanesulfonate Na-salt	PFHxS-Na	82382-12-5
1h,1h,2h,2h-perfluorooctanesulfonic acid	H4PFOS;6:2	27619-97-2
Perfluorooctane iodide	PFOI	507-63-1
1H,1H,2H,2H-perfluoro-1-hexanol	4:2 FTOH	2043-47-2
1H,1H,2H,2H-perfluoro-1-octanol	6:2 FTOH	647-42-7
1H,1H,2H,2H-perfluorooctylacrylate	6:2 FTA	17527-29-6





Specimen description

Specimen #	Specimen description	Location
C1	Black soft plastic	Spray bottle style-bottle



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Pictures

Sample photo:



Tested sample



Tested sample

End of the report

The test result(s) and conclusion(s) in this report relate only to the sample(s) as received and the method /regulation section(s) tested as described herein. If it is not further specified in the report, the decision rule for stating conformity is based on the QIMA decision rule. (<https://www.qima.com/conditions-of-service#decisionRule>). This test report may not be reproduced in whole or in part, without the written approval of QIMA (Hangzhou) Testing Co., Ltd.



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