

TEST REPORT NO 322533/26/RAD

Client MARMA POLSKIE FOLIE SP. Z O.O. POSTĘPU 15C 02676 WARSZAWA		Sample (according to declaration of Client) Sample description: Packaging LDPE
Sample reception date	10.04.2026	Sample status: no objections Sample number: 322533/26/RAD Sample received from the Client
Start of analysis	16.04.2026	
End of analysis	29.04.2026	
Test report date	29.04.2026	

Test Method	Unit	Result	Criteria	Statement of conformity
* # Content of polyfluoroalkyl compounds (PFAS) (PPWR) ^{1) 2)} CPSPD-AN-00668-MTHD; CEN/TS 15968				
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- heptadecafluoro-1-octanesulfonate NDecyl-N,N-dimethyl-1-decanaminium salt PFOSN(CH ₃) ₂ •((CH ₂) ₉ CH ₃) ₂ [CAS: 251099-16-8]	mg/kg	Not detected	≤ 0,025	Pass
2-(N-Ethylperfluoro-1-octanesulfonamido)-ethanol N-EtFOSE [CAS: 1691-99-2]	mg/kg	Not detected	≤ 0,025	Pass
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol N-MeFOSE [CAS: 24448-09-7]	mg/kg	Not detected	≤ 0,025	Pass
Perfluoro-1-octanesulfonyl fluoride PFOS-F [CAS: 307-35-7]	mg/kg	Not detected	≤ 0,025	Pass
Perfluorooctanoyl fluoride PFOA-F [CAS: 335-66-0]	mg/kg	Not detected	≤ 0,025	Pass
1H,1H,2H,2H-Perfluorododecane sulfonic acid 10:2 FTS [CAS: 120226-60-0]	mg/kg	Not detected	≤ 0,025	Pass
1H,1H,2H,2H-Perfluorododecane sulfonate acid 8:2 FTS [CAS: 39108-34-4]	mg/kg	Not detected	≤ 0,025	Pass
1H,1H,2H,2H-Perfluorododecane sulfonate acid, Sodium salt 8:2 FTS-Na	mg/kg	Not detected	≤ 0,025	Pass
1H,1H,2H,2H-Perfluorooctanesulphonic acid 6:2 FTS [CAS: 27619-97-2]	mg/kg	Not detected	≤ 0,025	Pass
2H,2H-Perfluorodecanoic acid H ₂ PFDA [CAS: 27854-31-5]	mg/kg	Not detected	≤ 0,025	Pass
2H,2H,3H,3H-Perfluoroundecanoic acid H ₄ PFUnA [CAS: 34598-33-9]	mg/kg	Not detected	≤ 0,025	Pass
7H-Perfluoroheptanoic acid HPFHpa [CAS: 1546-95-8]	mg/kg	Not detected	≤ 0,025	Pass
Perfluoro-1-heptanesulfonic acid PFHpS [CAS: 375-92-8]	mg/kg	Not detected	≤ 0,025	Pass
Perfluoro-3,7-dimethyloctanoic acid PF-3,7-DMOA [CAS: 172155-07-6]	mg/kg	Not detected	≤ 0,025	Pass
Perfluoro-n-decanoic acid PFDA [CAS: 335-76-2]	mg/kg	Not detected	≤ 0,025	Pass
Perfluoro-n-hexanoic acid PFHxA-NH ₄ /PFHxA [CAS: 307-24-4]	mg/kg	Not detected	≤ 0,025	Pass
Perfluoro-n-heptanoic acid PFHpA [CAS: 375-85-9]	mg/kg	Not detected	≤ 0,025	Pass
Perfluoro-n-nonanoic acid PFNA [CAS: 375-95-1]	mg/kg	Not detected	≤ 0,025	Pass
Perfluoro-n-octanoic acid PFOA [CAS: 335-67-1]	mg/kg	Not detected	≤ 0,025	Pass

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Perfluorobutanesulfonic acid PFBS [CAS: 375-73-5]	mg/kg	Not detected	≤ 0,025	Pass
Perfluorodecane sulfonic acid PFDS [CAS: 335-77-3]	mg/kg	Not detected	≤ 0,025	Pass
Perfluorododecanoic acid PFDoA [CAS: 307-55-1]	mg/kg	Not detected	≤ 0,025	Pass
Perfluorohexanesulfonic acid PFHxS [CAS: 355-46-4]	mg/kg	Not detected	≤ 0,025	Pass
Perfluorobutyric acid PFBA [CAS: 375-22-4]	mg/kg	Not detected	≤ 0,025	Pass
Perfluorooctanesulfonic acid PFOS [CAS: 1763-23-1]	mg/kg	Not detected	≤ 0,025	Pass
Perfluoropentanoic acid PFPA [CAS: 2706-90-3]	mg/kg	Not detected	≤ 0,025	Pass
Perfluorotetradecanoic acid PFTeA [CAS: 376-06-7]	mg/kg	Not detected	≤ 0,025	Pass
Perfluorotridecanoic acid PFTrA [CAS: 72629-94-8]	mg/kg	Not detected	≤ 0,025	Pass
Perfluoroundecanoic acid PFUnA [CAS: 2058-94-8]	mg/kg	Not detected	≤ 0,025	Pass
N-Ethylperfluoro-1-octanesulfonamide N-EtFOSA [CAS: 4151-50-2]	mg/kg	Not detected	≤ 0,025	Pass
N-Methylperfluoro-1-octanesulfonamide N-MeFOSA [CAS: 31506-32-8]	mg/kg	Not detected	≤ 0,025	Pass
Ammonium pentadecafluorooctanoate APFO [CAS: 3825-26-1]	mg/kg	Not detected	≤ 0,025	Pass
Ethyl Perfluorooctanoate PFOA-Et [CAS: 3108-24-5]	mg/kg	Not detected	≤ 0,025	Pass
Methyl perfluorooctanoate PFOA-Me [CAS: 376-27-2]	mg/kg	Not detected	≤ 0,025	Pass
Potassium perfluorooctanoate PFOA-K [CAS: 2395-00-8]	mg/kg	Not detected	≤ 0,025	Pass
Sodium perfluorooctanoate PFOA-Na [CAS: 335-95-5]	mg/kg	Not detected	≤ 0,025	Pass
Silver perfluorooctanoate PFOA-Ag [CAS: 335-93-3]	mg/kg	Not detected	≤ 0,025	Pass
Perfluorooctane sulfonamide (PFOSA) [CAS: 754-91-6]	mg/kg	Not detected	≤ 0,025	Pass
Ammonium perfluorooctanesulfonate PFOS-NH3 [CAS: 29081-56-9]	mg/kg	Not detected	≤ 0,025	Pass
Perfluorooctane sulfonate diethanolamine salt PFOS-DEA [CAS: 70225-14-8]	mg/kg	Not detected	≤ 0,025	Pass
Perfluorooctanesulfonic acid lithium salt PFOS-Li [CAS: 29457-72-5]	mg/kg	Not detected	≤ 0,025	Pass
Perfluoro-1-heptanesulfonic acid potassium salt PFHpS-K [CAS: 60270-55-5]	mg/kg	Not detected	≤ 0,025	Pass
Perfluorodecane sulfonic acid potassium salt PFDS-K [CAS: 2806-16-8]	mg/kg	Not detected	≤ 0,025	Pass
Perfluorooctanesulfonic acid potassium salt PFOS-K [CAS: 2795-39-3]	mg/kg	Not detected	≤ 0,025	Pass
Perfluorodecane sulfonic acid sodium salt PFDS-Na [CAS: 2806-15-7]	mg/kg	Not detected	≤ 0,025	Pass
Perfluorooctanesulfonic acid tetraethylammonium salt 4PFOSN(C2H5)4 [CAS: 56773-42-3]	mg/kg	Not detected	≤ 0,025	Pass
Content of polyfluoroalkyl compounds (PFAS)	mg/kg	Not detected	≤ 0,25	Pass
# Total fluorine (TF) ²⁾ C-IC (bomb combustion)	mg/kg	< 50	≤ 50	Pass

1) LOQ: 0,01 mg/kg, LOD: 0,004 mg/kg

2) Regulation (EU) 2025/40 of the European Parliament and of the Council of 19 December 2024 on packaging and packaging waste, amending Regulation (EU) 2019/1020 and Directive (EU) 2019/904, and repealing Directive 94/62/EC.

Test: Content of polyfluoroalkyl compounds (PFAS) (PPWR) was performed in laboratory with an accreditation number AB-0505-T

Test: Total fluorine (TF) was performed in laboratory TUV Rheinland LGA Products GmbH Köln Germany

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Test report authorized by:

ID: 437, Analysis Expert, Cooperation with Laboratories Section

The test report bears the certified electronic seal of J.S. Hamilton Poland Sp. z o.o.

The results refer only to the samples received and tested. When a measurement uncertainty is given, it is an expanded uncertainty estimated for a coverage factor $k=2$ at 95% confidence level and is not including sampling uncertainty, unless otherwise stated. When the conformity is stated J.S. Hamilton Poland Sp. z o.o. applies the simple acceptance decision rule in accordance with ILAC-G8:09/2019, unless otherwise reported. If the "result" column contains a record: "<" or ">", it means, that it is the test outcome directly related to the lower or upper limit of the measuring range of the method. If an expanded measurement uncertainty is given for such a test outcome, it relates only to the lower or upper limit of the measuring range of the method, respectively. In the case where the Laboratory base on the obtained test outcome, "statement of conformity" column presents an opinion and interpretation. This test report may not be copied in part without the prior written permission of J.S. Hamilton Poland Sp. z o.o. The responsibility of J.S. Hamilton Poland Sp. z o.o. is limited solely to the data issued in its original. J.S. Hamilton Poland Sp. z o.o. does not permit the use of the PCA accreditation symbol AB 079 by customers, subcontractors, external service providers and other third parties. For further information please refer to the PCA document - DA-02. The service confirmed by this report is subject to the General Terms and Conditions of Services of J.S. Hamilton Poland Sp. z o.o. published on www.hamilton.com.pl.

* Test method accredited

Test performed by external provider

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THE END OF THE REPORT