RAPPORTO DI PROVA / *TEST REPORT*

NUMBER	ISSUE DATE
0173\FPM\FDC\26_2	25/02/2026

BUSINESS AREA	LABORATORY
BA FPM Food, Packaging & Materials	Food Contact

SPECIMEN DESCRIPTION

XPS TRAY PAL 275-25 SEALABLE BLACK 300047846

CUSTOMER

PALAMIDIS SA
9 EGIDON STR.
14564 KIFISIA (EE)

REFERENCE STANDARD

D.P.R. 777 dated 23/08/1982, D.L. 108 dated 25/01/1992, D.M.34 dated 21/3/73
Regulations 1935/2004/EC GUCE L 338 dated 13/11/04 and 1895/2005/EC GUCE L 302 dated 19/11/2005.
Regulation 10/2011/EU, GUUE L 12 dated 15/01/2011, and subsequent updatings.

CSI S.P.A. A SOCIO UNICO
SOGGETTA AD ATTIVITÀ DI DIREZIONE E
COORDINAMENTO DI IMQ GROUP S.R.L.

REA MI 1466310
R.I./C.F./P.I. 11360160151
Cap. Soc. € 1.040.000

Sede legale
Italia | 20030 Senago (MI) | Cascina Traversagna 21
direzione-csi@legalmail.it | info@csi-spa.com | www.csi-spa.com

GENERALITIES

- Sample receiving date: 13/08/2025
- Analysis start date: 28/01/2026
- Analysis end date: 17/02/2026
- Laboratory site: Viale Lombardia, 20/B – 20021 Bollate (MI)
- Test site: Viale Lombardia, 20/B – 20021 Bollate (MI)
- Deviation from test methods: NO
-

SAMPLE DESCRIPTION

XPS TRAY PAL 275-25 SEALABLE BLACK 300047846

SAMPLING AND PICKING

The sampling for the test has been done drawing casually part of the sample in our possession.
Sampling was carried out according to the following procedures.

Subject that performed the sampling		***Sampling report***	
☐ *Notified Body*		*Reference number*	
		Date of issue	
☐ TAB		*Reference number*	
		Date of issue	
☐ CSI-CERT		*Reference number*	
		Date of issue	
× *Customer*		*Reference number*	*n.a.*
		Date of issue	*n.a.*
☐ *Other*		*Reference number*	
		Date of issue	

DECLARATION

The test results of the present report are related exclusively to the tested sample, as received.
The data relating to the sample are provided by the customer and not verified by the laboratory, unless expressly indicated. The laboratory declines all responsibility.
The present test report cannot be partially reproduced without the written authorization of laboratory managing Director.
The uncertainties, if present, are estimated as extended uncertainty obtained multiplying the standard uncertainty by the coverage factor *k* corresponding to a confidence level of about 95%. Normally, this factor = 2.
In all cases of declarations of conformity, the compliance will be evaluated by adding the extended uncertainty to the obtained value (except different occurrences that, in case, will be properly described). The binary decision rule, that considering a respect band w = U (see ILAC G8/9:2019, cl. 4.2.2), determines a risk of less than 2.5% of incorrect assessment of PFA conformity (see ILAC G8/9 :2019, cl. 5.2).

PERFORMED DETERMINATIONS

1) DETERMINATION OF FLUORINATED SUBSTANCES (PFAS) MADE, AFTER EXTRACTION, BY LC MS/TOF.

MI_789300896_2017_Rev.0
Determination of the content of fluorinated substances (PFAS) contained in packaging, after solvent extraction and subsequent LC MS/MS or GC MS/MS analysis of the sample extract.

LoQ 0.01mg/kg

Bis[2-(perfluorohexyl)ethyl] phosphate o 6:2/6:2 Fluorotelomer phosphate diester 6:2-diPAP o 6:2/6:2 diPAP -CAS: 57677-95-9
Bis[2-(perfluorooctyl)ethyl] phosphate o 8:2 Polyfluoroalkyl phosphate diester 8:2 diPAP o 8:2/8:2 diPAP - CAS: 678-41-1
Bis[2-(perfluorodecyl)ethyl] phosphate 10:2 diPAP o 10:2/10:2 diPAP - CAS: 1895-26-7
[2-(perfluorooctyl)ethyl], 2-(perfluorohexyl)ethyl] phosphate o 6:2/8:2 Fluorotelomer phosphate diester 6:2-8:2-diPAP -CAS: 943913-15-3
2-(Perfluorohexyl)ethane-1-sulfonic acid o 6:2 Fluorotelomer sulfonic acid 6:2-FTS o 6:2 FTSA - CAS: 27619-97-2
2-(Perfluorooctyl)ethane-1-sulfonic acid o 8:2 Fluorotelomer sulfonic acid 8:2-FTS o 8:2-FTSA - CAS: 39108-34-4
2-(Perfluorodecyl)ethane-1-sulfonic acid o Perfluorododecane sulfonic acid 10:2 FTS o 10:2 FTSA o PFDoS - CAS: 120226-60-0
2-(perfluorohexyl)ethyl methacrylate 6:2 FTMAc - CAS: 2144-53-8
2-(Perfluorohexyl)ethenoic acid 6:2 FTUCA o FHUEA - CAS: 70887-88-6
2-(Perfluorodecyl)ethenoic acid 10:2 FTUCA o FDUEA - CAS: 70887-94-4
2-(Perfluorooctyl)ethanoic acid 8:2 FTCA o FOEA - CAS: 27854-31-5
2-(Perfluorodecyl)ethanoic acid 10:2 FTCA o FDEA - CAS: 53826-13-4
3-(Perfluoropropyl)propanoic acid 3:3FTCA o FPrPA - CAS: 356-02-5

3-(Perfluoropentyl)propanoic acid 5:3 FTCA o FPePA - CAS: 914637-49-3
3-(Perfluoroheptyl)propanoic acid 7:3 FTCA o FHpPA - CAS: 812-70-4
2-(Perfluorohexyl)ethanol o 6:2 Fluorotelomer alcohol 6:2-FTOH - CAS: 647-42-7
2-(Perfluorooctyl)ethanol o 8:2 Fluorotelomer alcohol 8:2-FTOH o FOET - CAS: 678-39-7
2-(perfluorodecyl)ethanol o 10:2 Fluorotelomer alcohol 10:2-FTOH o FDET - CAS: 865-86-1
Perfluorooctanesulfonamide PFOSA - CAS: 754-91-6
Perfluorooctane sulfonamidoacetic acid FOSAA - CAS: 2806-24-8
Perfluorooctylsulfonylethylglycine o N-ethyl perfluorooctanesulfonamidoacetic acid EtFOSAA o N-EtFOSAA - CAS: 2991-50-6
2-(Perfluorooctyl)ethyl dihydrogen phosphate 8:2 mPAP o 8:2 monoPAP - CAS: 57678-03-2
Bis(2-perfluorooctylsulfonyl-N-ethylaminoethyl) phosphate diSAmPAP o 8:2-diSAmPAP - CAS: 2965-52-8
2-(perfluorohexyl)ethyl acrylate o 1H,1H,2H,2H-perfluorooctylacrylate 6:2 FTAcr o 6:2 FTAcry - CAS: 17527-29-6
2-(Perfluorohexyl)ethanoic acid 6:2 FTCA o FHEA - CAS: 53826-12-3
Perfluorobutylethylsulphonic acid 4:2 FTS o 4:2 FTSA -CAS: 757124-72-4
Perfluorobutanesulfonic acid o Nonafluorobutanesulfonic acid PFBS - CAS: 375-73-5
Perfluoropentanesulfonic acid PFPeS - CAS: 2706-91-4
Perfluoro-n-hexanesulfonic acid PFHxS - CAS: 355-46-4
Perfluoroheptanesulfonic acid PFHpS -CAS: 375-92-8
Perfluorooctanesulfonic acid (Branched isomer) br-PFOS - CAS: 1763-23-1
Perfluorononanesulfonic acid o Nonadecafluoro-1-nonanesulfonic acid PFNS o PFNSA -CAS: 68259-12-1
Perfluorodecane sulfonic acid PFDS o PFDSA -CAS: 335-77-3
Perfluoroundecanesulfonic acid PFUnDS o PFUnDSA - CAS: 749786-16-1
Perfluorododecanesulphonic acid PFDoDS o PFDoDSA -CAS: 79780-39-5
Perfluorotridecanesulfonic acid PFTrDS o PFTrDSA-CAS: 791563-89-8
Perfluorobutanoic acid PFBA -CAS: 375-22-4
Perfluoropentanoic acid / Perfluorovaleric acid PFPeA - CAS: 2706-90-3
Perfluorohexanoic acid PFHxA - CAS: 307-24-4
Perfluoroheptanoic acid PFHpA - CAS: 375-85-9
Perfluorooctanoic acid / Pentadecafluorooctanoic acid PFOA -CAS: 335-67-1
Perfluorononanoic acid / Heptadecafluorononanoic acid PFNA -CAS: 375-95-1
Perfluorodecanoic acid / Nonadecafluorodecanoic acid PFDA -CAS: 335-76-2
Perfluoroundecanoic acid / Henicosafluoroundecanoic acid PFUnDA o PFUDA -CAS: 2058-94-8
Perfluorododecanoic acid / Perfluorolauric acid PFDoDA -CAS: 307-55-1
Perfluorotridecanoic acid / Pentacosafluorotridecanoic acid PFTrDA -CAS: 72629-94-8
Perfluorotetradecanoic acid / Perfluoromyristic acid PFTeDA -CAS: 376-06-7
Perfluorohexadecanoic acid / Perfluoropalmitic acid PFHxDA -CAS: 67905-19-5
Perfluoro(2-metyl-3oxahexanoic) acid / Hexafluoropropylene oxide dimer acid HFPO-DA o bC6O1 PFECA -CAS: 13252-13-6
4,8-Dioxa-3H-perfluorononanoic acid DONA o lC7O2 PFECA -CAS: 919005-14-4
Perfluoro-11-chloro,octyloxyethanesulfonic acid 8:2 Cl-PFESA o 11Cl-PF3OUdS -CAS: 763051-92-9
Perfluoro-9-chloro,hexyloxyethanesulfonic acid / Perfluoro(2-((6-chlorohexyl)oxy)ethanesulfonic acid) 6:2 Cl-PFESA o 9Cl-PF3ONS - CAS: 756426-58-1
4:2 Fluorotelomer sulfonic acid – 4:2-FTS – CAS: 757124-72-4
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid -9Cl-PF3ONS – CAS: 73606-19-6
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonate / Potassium 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonate – 11Cl-PF3OUDS – CAS: 83329-89-9

N-Ethyl-perfluorooctane sulfonamide (sulfluramid) – N-EtFOSA – CAS: 4151-50-2
N-Methylperfluorooctanesulfonamide/Heptadecafluoro-N-methyloctanesulphonamide – N-MeFOSA – CAS: 31506-32-8
Perfluorobutane sulfonate – PFBS – CAS: 29420-49-3
Perfluorodecane sulfonate – PFDS – CAS: 13419-61-9
Perfluorohexane sulfonate – PFHxS – CAS: 3871-99-6
Perfluoro-n-octadecanoic acid – PFODA – CAS: 16517-11-6
Perfluorooctane sulfonate – PFOS – CAS: 2795-39-3

2) TOTAL FLUORINE AND TOTAL ORGANIC FLUORINE

UNI EN 17813:2023 + UNI EN 12457-2
Total fluorine is extracted by oxidative pyrohydrolytic combustion and inorganic fluorine is extracted in water. The analysis is performed by ion chromatography. Organic fluorine is determined by calculation.
LoQ Total Fluorine: 1 mg/kg
LoQ Inorganic Fluorine: 0.1 mg/kg
LoQ Organic Fluorine (by calculation): 1 mg/kg

3) DETERMINATION OF CONTENT IN HEAVY METALS, ACCORDING TO REG. UE 2025/40 AND SUBSEQUENT AMENDAMENTS.

MI_789200525_2015_Rev.0
Determination of Cadmium (Cd), Chromium (Cr6+), Lead (Pb) and Mercury (Hg) according to Reg. UE 2025/40 and subsequent amendaments.
The metals quantification has been performed using X-ray fluorescence spectroscopy technique with Oxford Instruments X-MET 8000 Expert CG instrument
LOD Cd, Hg, Pb 10 mg/kg, Cr6+ 20 mg/kg

RESULTS

1) DETERMINATION OF FLUORINATED SUBSTANCES (PFAS) MADE, AFTER EXTRACTION, BY LC MS/TOF.

XPS TRAY PAL 275-25 SEALABLE BLACK 300047846		
Measured unit: **mg/kg**		
COMPOUND	**CAS**	**RESULT**
Bis[2-(perfluorohexyl)ethyl] phosphate o 6:2/6:2 Fluorotelomer phosphate diester	57677-95-9	<0.01
Bis[2-(perfluorooctyl)ethyl] phosphate o 8:2 Polyfluoroalkyl phosphate diester	678-41-1	<0.01
Bis[2-(perfluorodecyl)ethyl] phosphate	1895-26-7	<0.01
[2-(perfluorooctyl)ethyl], 2-(perfluorohexyl)ethyl] phosphate o 6:2/8:2 Fluorotelomer phosphate diester	943913-15-3	<0.01
2-(Perfluorohexyl)ethane-1-sulfonic acid o 6:2 Fluorotelomer sulfonic acid	27619-97-2	<0.01
2-(Perfluorooctyl)ethane-1-sulfonic acid o 8:2 Fluorotelomer sulfonic acid	39108-34-4	<0.01
2-(Perfluorodecyl)ethane-1-sulfonic acid o Perfluorododecane sulfonic acid	120226-60-0	<0.01
2-(perfluorohexyl)ethyl methacrylate	2144-53-8	<0.01
2-(Perfluorohexyl)ethenoic acid	70887-88-6	<0.01
2-(Perfluorodecyl)ethenoic acid	70887-94-4	<0.01
2-(Perfluorooctyl)ethanoic acid	27854-31-5	<0.01
2-(Perfluorodecyl)ethanoic acid	53826-13-4	<0.01
3-(Perfluoropropyl)propanoic acid	356-02-5	<0.01
3-(Perfluoropentyl)propanoic acid	914637-49-3	<0.01
3-(Perfluoroheptyl)propanoic acid	812-70-4	<0.01
2-(Perfluorohexyl)ethanol o 6:2 Fluorotelomer alcohol	647-42-7	<0.01
2-(Perfluorooctyl)ethanol o 8:2 Fluorotelomer alcohol	678-39-7	<0.01
2-(perfluorodecyl)ethanol o 10:2 Fluorotelomer alcohol	865-86-1	<0.01
Perfluorooctanesulfonamide	754-91-6	<0.01
Perfluorooctane sulfonamidoacetic acid	2806-24-8	<0.01
Perfluorooctylsulfonylethylglycine o N-ethyl perfluorooctanesulfonamidoacetic acid	2991-50-6	<0.01
2-(Perfluorooctyl)ethyl dihydrogen phosphate	57678-03-2	<0.01
Bis(2-perfluorooctylsulfonyl-N-ethylaminoethyl) phosphate	2965-52-8	<0.01
2-(perfluorohexyl)ethyl acrylate o 1H,1H,2H,2H-perfluorooctylacrylate	17527-29-6	<0.01
2-(Perfluorohexyl)ethanoic acid	53826-12-3	<0.01

Perfluorobutylethylsulphonic acid	757124-72-4	<0.01
Perfluorobutanesulfonic acid o Nonafluorobutanesulfonic acid	375-73-5	<0.01
Perfluoropentanesulfonic acid	2706-91-4	<0.01
Perfluoro-n-hexanesulfonic acid	355-46-4	<0.01
Perfluoroheptanesulfonic acid	375-92-8	<0.01
Perfluorooctanesulfonic acid (Branched isomer)	1763-23-1	<0.01
Perfluorononanesulfonic acid o Nonadecafluoro-1-nonanesulfonic acid	68259-12-1	<0.01
Perfluorodecane sulfonic acid	335-77-3	<0.01
Perfluoroundecanesulfonic acid	749786-16-1	<0.01
Perfluorododecanesulphonic acid	79780-39-5	<0.01
Perfluorotridecanesulfonic acid	791563-89-8	<0.01
Perfluorobutanoic acid	375-22-4	<0.01
Perfluoropentanoic acid Perfluorovaleric acid	2706-90-3	<0.01
Perfluorohexanoic acid	307-24-4	<0.01
Perfluoroheptanoic acid	375-85-9	<0.01
Perfluorooctanoic acid Pentadecafluorooctanoic acid	335-67-1	<0.01
Perfluorononanoic acid o Heptadecafluorononanoic acid	375-95-1	<0.01
Perfluorodecanoic acid o Nonadecafluorodecanoic acid	335-76-2	<0.01
Perfluoroundecanoic acid Henicosafluoroundecanoic acid	2058-94-8	<0.01
Perfluorododecanoic acid o Perfluorolauric acid	307-55-1	<0.01
Perfluorotridecanoic acid o Pentacosafluorotridecanoic acid	72629-94-8	<0.01
Perfluorotetradecanoic acid o Perfluoromyristic acid	376-06-7	<0.01
Perfluorohexadecanoic acid o Perfluoropalmitic acid	67905-19-5	<0.01
Perfluoro(2-metyl-3oxahexanoic) acid o Hexafluoropropylene oxide dimer acid	13252-13-6	<0.01
4,8-Dioxa-3H-perfluorononanoic acid	919005-14-4	<0.01
Perfluoro-11-chloro,octyloxyethanesulfonic acid	763051-92-9	<0.01
Perfluoro-9-chloro,hexyloxyethanesulfonic acid o Perfluoro(2-((6-chlorohexyl)oxy)ethanesulfonic acid)	756426-58-1	<0.01
4:2 Fluorotelomer sulfonic acid	757124-72-4	<0.01
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	73606-19-6	<0.01
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonatePotassium 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonate	83329-89-9	<0.01
N-Ethyl-perfluorooctane sulfonamide sulfluramid	4151-50-2	<0.01
N-Methylperfluorooctanesulfonamide Heptadecafluoro-Nmethyloctanesulphonamide	31506-32-8	<0.01
Perfluorobutane sulfonate	29420-49-3	<0.01
Perfluorodecane sulfonate	13419-61-9	<0.01
Perfluorohexane sulfonate	3871-99-6	<0.01
Perfluoro-n-octadecanoic acid	16517-11-6	<0.01
Perfluorooctane sulfonate	2795-39-3	<0.01

2) TOTAL FLUORINE AND TOTAL ORGANIC FLUORINE

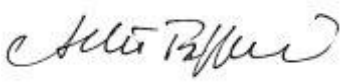
XPS TRAY PAL 275-25 SEALABLE BLACK 300047846		
Measured unit: **mg/kg**		
Element	**Average value**	**Extended uncertainty**
Total Fluorine	8.1	1.9
Inorganic Fluorine	<0.1	-
Organic Fluorine - (by calculation)	8.1	1.9

3) DETERMINATION OF CONTENT IN HEAVY METALS, ACCORDING TO REG. UE 2025/40 AND SUBSEQUENT AMENDAMENTS.

SAMPLE	**Metals** Measured unit: **mg/kg**				
	Cd	**Cr^{6+}**	**Pb**	**Hg**	**Limit according to Reg.UE 2025/40**
XPS TRAY PAL 275-25 SEALABLE BLACK 300047846	<10	<20	<10	<10	100[1]

[1]The limit of 100 mg/kg (ppm) is referred to the sum of metals concentration

The customer declares that articles:
PAL 6, PAL 7, PAL 8, PAL8-50, PAL 9, PAL 9S, PAL 10, PAL11, PAL 12, PAL 13, PAL 14, PAL 15, PAL 16, PAL 17, PAL 18, PAL 19, PAL 19A, PAL 20, PAL 22-18, PAL 22-30, PAL22-40, PAL 23, PAL 24, PAL25, PAL 26, PAL 29, PAL 30, PAL 32, PAL 33, PAL 34-27, PAL 34-37, PAL 34-47, PAL 35, PAL 37, PAL 38, PAL38-50, PAL 39, PAL 40, PAL 41, PAL 42, PAL 44, PAL 47, PAL 170, PAL 55, PAL 56, PAL275
LUNCH BOX 1-2-3,
HAMBURGER BOX,
KIDNEY PAL50,
PAD 170x97, PAD 180x135,
BOARD 178x162, BOARD 170x102, BOARD 190x110, BOARD 132x132 P/L 17,
PIZZA DISC 250, OVAL PLATE 260x195
are manufactured by the same supplier, with the same materials, by the same process with the tested sample :
XPS TRAY PAL 275-25 SEALABLE (MATERIAL FOAM POLYSTYRENE), Lot Number: 300047846

DATA *Date*	**Operating Sector Food Contact**	**BA FPM Food, Packaging & Materials**
	Cristina Mocchi	**Alberto Taffurelli**
25/02/2026		

The document is digitally signed in accordance with Legislative Decree n. 82/2005 as amended and replaces the paper document and the handwritten signature and it's valid from the date of affixing the digital signature.