



Lab. H.A.C.C.P Authorized Marche Region
Asbestos Lab. Authorized Ministry of Health
Scientific Research Lab. Accredited at MIUR

Centro Assistenza
Ecologica S.r.l.



LAB N° 0191L

Messrs.

LATI INDUSTRIA TERMOPLASTICI SPA

Via Francesco Baracca, 7
21040 VEDANO OLONA VA
IT

Test report n°: 24LA02571 . Release date 11/07/2024

Category: **Materials & objects in contact with drinking water**
Articles: **Sample for testing enhancement of microbial growth according to EN 16421 - Method 2**
Date received: **15/03/2024**
Sampled by: **Customer** Sampling date: **11/03/2024** Delivered by: **Courier**
Place of sampling: **Lati Industria Termoplastici SpA - Vedano Olona (VA)**
Project Number: **6316/6727/060423**
Material type (#): **PA 66 Glass Reinforced** Colour of the material (#): **Black F: 3352**
Material Manufacturer (#): **Lati Industria Termoplastici SpA** Trade Name (#): **Latamid 66 H2 G/30**

Sample Type: **Sample plates (150 mm x 150 mm)** Lot Number of Product (#): **128513**
Production method (#): **Extrusion**
Production place of the test pieces (#): **Lati Industria Termoplastici SpA - Gomate Olona (VA)**
Storage Conditions: **At room temperature, dry without the influence of light**

Characteristics	Units	Results	Start Test End Test
<i>Test method</i>			
Test carried on sample as received			
Enhancement of microbial growth		See Annex	09/04/24 09/07/24
<i>UNI EN 16421:2015 Met. 2</i>			



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Follows Test Report n°: 24LA02571 . Release date 11/07/2024

The results of microbiological tests are issued in accordance with UNI EN ISO 7218: 2013 (single plate tests)

Tests marked by (*) are not credited by ACCREDIA.

End of test report n° 24LA02571
Digitally signed file, according to law

Chief of Microbiology

Dott. Alessandra Notti
Ord. Biol. Marche-Emilia Romagna n° ERM_A02487

Chief of Laboratory

Dott. Chim Simone Giacomelli
Ord. Reg. le Chimici Marche N.557

All the tests in this report were carried out at the facility sited in Ancona (AN) via Caduti del Lavoro 24/i, except where otherwise specified.

The analytical results relate only to the items tested and, if sampled by the customer, related only to sample as received.

Laboratory is not responsible about information provided by the Customer, as reported in the fields Description and Sample Reference (if reported) and, when sampled by the Customer, Location, Date and Sampling Point if reported.

Written acknowledgement for publication and duplication of our analytical report for promotional purpose as well as fractional use for other purposes is mandatory

The expanded uncertainty is calculated multiplying combined uncertainty by the chosen coverage factor $K=2$; the associated confidence level is 95% (effective number of degrees of freedom > 10)



ANNEX 1 - REPORT 24LA02571

PRODUCT INFORMATION		STANDARD OPERATING PROCEDURE INFORMATION	
SAMPLE CODE	24LA02571	N° of specimens of test sample which constitute a test piece	2
Sample description	Sample plates (150 mm x 150 mm)	Surface of test specimen (cm ²)	449
Method of manufacture	Extrusion	Total Surface of test specimen (cm ²)	898
Place and Date of manufacture	Lati Industria Termoplastici SpA - Gomate Olona (VA)	Test water	NOT CHLORINATED
Annex (According to "Evaluation criteria organic materials KTW-BWGL 7 March 2022")	A (Plastics)	Starting date of analysis	08/04/2024
Product group (According to "Evaluation criteria organic materials KTW-BWGL 7 March 2022")	Ancillaries (for pipes with ID < 80 mm)	Completion date of analysis	09/07/2024
Test requirements according to UNI EN 16421 - Method 2 (see "Evaluation criteria organic materials KTW-BWGL , 7 March 2022")	M1	NOTE	
Conversion Factor (F _c)			
Date test sample received			



Table 1 - TEST RESULTS

Duration of period	Start of exposure	After 4 weeks		After 8 weeks		After 12 weeks	
		Date	09/05/2024	Date	10/06/2024	Data	09/07/2024
1-monthly test period (harvesting any 4 weeks)	09/04/2024	1° duplicate (ml)	0,01	1° duplicate (ml)	0,02	1° duplicate (ml)	0,04
		2° duplicate (ml)	0,02	2° duplicate (ml)	0,01	2° duplicate (ml)	0,03
		mean 1a	0,02	mean 1b	0,02	mean 1c	0,04
		Positive control (ml)	> 1,5	Positive control (ml)	> 1,5	Positive control (ml)	> 1,5
		Negative control (ml)	< 0,01	Negative control (ml)	< 0,01	Negative control (ml)	< 0,01
2-monthly test period (harvesting any 8 weeks)	09/04/2024			1° duplicate (ml)	0,02		
				2° duplicate (ml)	0,01		
				mean 2a	0,02		
				Positive control(ml)	> 1,5		
				Negative control (ml)	< 0,01		
3-monthly test period (harvesting any 12 weeks)	09/04/2024					1° duplicate (ml)	0,05
						2° duplicate (ml)	0,05
						mean 3a	0,05
						Positive control(ml)	> 1,5
						Negative control (ml)	< 0,01



Table 2 - One-month results

	1° duplicate (ml)	2° duplicate (ml)	Mean (ml)	Limit ¹ (ml/800cm ²)		Result N°
	After 4 weeks	0,01	0,02	0,02	≤	(0,05+0,02)
After 8 weeks	0,02	0,01	0,02	≤	(0,05+0,02)	1b
After 12 weeks	0,04	0,03	0,04	≤	(0,05+0,02)	1c

¹according to UBA recommendation: *Evaluation Criteria for plastic and other organic materials in contact with drinking water (KTW-BWGL) – General Part - 7 Marzo 2022.*

Table 3 - Two-month results

	1° duplicate (ml)	2° duplicate (ml)	Mean (ml)	Limit ¹ (ml/800cm ²)		Result N°
	After 8 weeks	0,02	0,01	0,02	≤	(0,05+0,02)

¹according to UBA recommendation: *Evaluation Criteria for plastic and other organic materials in contact with drinking water (KTW-BWGL) – General Part - 7 Marzo 2022.*

Table 4 - Three-month results

	1° duplicate (ml)	2° duplicate (ml)	Mean (ml)	Limit ¹ (ml/800cm ²)		Result N°
	After 12 weeks	0,05	0,05	0,05	≤	(0,05+0,02)

¹according to UBA recommendation: *Evaluation Criteria for plastic and other organic materials in contact with drinking water (KTW-BWGL) – General Part - 7 Marzo 2022.*



MICROBIAL GROWTH TREND GRAPHIC

