Accredited laboratory ACCREDIA n°191
Lab. H.A.C.C.P Authorized Marche Region
Asbestos Lab. Authorized Ministry of Health
Scientific Research Lab.Accredited at MIUR

LAB N° 0191L

Centro Assistenza
Ecologica S.r.l.

Messrs.
LCI ITALY SRL
Via Etruria, 1
50026 SAN CASCIANO IN VAL DI PESA FI
IT

Test report n°: 23LA05374 . Release date 28/11/2023

Category: **Materials & objects in contact with drinking water**

Articles: **Type Test**

Date received: **14/07/2023**

Sampled by: **Customer** Sampling date: **26/06/2023** Delivered by: **Courier**

Place of sampling: **LCI ITALY SRL - San Casciano in Val Di Pesa (FI)**

Project Number: **6734/6320/030423**

Field of application (#): **Containers and tanks for cold water (23°C) application**

Product Name (#): **Water tank - Code n OL20000036000**

Product Group (#): **P1**

Colour of the material (#): **Natural**

Material type (#): **Polyethylene**

Convertion Factor (Fc) (#): **4**

Material Manufacturer (#): **Polyplast**

Trade Name (#): **Plastene R266**

Sample Type: **Plates 100 mm x 100 mm**

Lot Number of Product (#): **83390**

Production method (#): **--**

Production place of the test pieces (#): **LCI ITALY SRL - San Casciano in Val Di Pesa (FI)**

Storage Conditions: **At room temperature, dry without the influence of light**

Formulation Assessment: **Submitted and checked**

CAE Test Report: **23LA03386**

Characteristics *Test method*	Units	Results	Uncertainty	Limit 1	Limit 2	Start Test End Test
Test carried on sample as received						
Testing Conditions *UNI EN 1420:2016 + UNI EN 12873-1:2014*		-				17/07/23 04/09/23
Test water type		**Not Chlorinated**				17/07/23 04/09/23
Temperature	°C	**23**				17/07/23 04/09/23
Contact Time	h	**72**				17/07/23 04/09/23
N° of Migration Period		**3**				17/07/23 04/09/23
Surface/Volume Ratio	dm£\dm§	**5,0**				17/07/23 04/09/23

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 analitical 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 teh 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)

Follows Test Report n°: 23LA05374 . Release date 28/11/2023

Characteristics *Test method*	Units	Results	Uncertainty	Limit 1	Limit 2	Start Test End Test
Test carried on sample as received						
Surface area of test piece	dm£	**2,1**				17/07/23 04/09/23
Number of test pieces used together in a migration		**4**				17/07/23 04/09/23
Volume of test liquid	dm§	**1,7**				17/07/23 04/09/23
Sample Prepared According to: UNI EN 1420:2016						
COLOUR *UNI EN ISO 7887 : 2012 - Met. C*	mg/l_Pt/Co	**-**				17/07/23 14/09/23
1st Period		**< 2**				17/07/23 08/09/23
2nd Period		**< 2**				17/07/23 11/09/23
3rd Period		**< 2**		10		17/07/23 14/09/23
TURBIDITY *UNI EN ISO 7027-1:2016*	FNU	**-**				17/07/23 14/09/23
1st Period		**0,18**	±0,04			17/07/23 08/09/23
2nd Period		**< 0,17**				17/07/23 11/09/23
3rd Period		**0,18**	±0,04	0.5		17/07/23 14/09/23
ODOUR *UNI EN 1622:2006*		**-**				17/07/23 15/09/23
Reference Water		**Not Chlorinated**				17/07/23 08/09/23
Test Type		**Paired**				17/07/23 08/09/23
Method Type		**Full Method**				17/07/23 08/09/23
Number of Assessors		**4**				17/07/23 15/09/23
Test Temperature	°C	**23**				17/07/23 08/09/23
Preservation Time before test	h	**1**				17/07/23 08/09/23
TON 1st Period of Migration		**2**				17/07/23 08/09/23
TON 2nd Period of Migration		**2**				17/07/23 11/09/23
TON 3rd Period of Migration		**1**		2		17/07/23 14/09/23
TENDENCY OF FOAMING *UNI EN 1420:2016*		**-**				17/07/23 14/09/23
1st Period		**ND**				17/07/23 08/09/23

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 analitical 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 teh 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)

Follows Test Report n°: 23LA05374 . Release date 28/11/2023

Characteristics *Test method*	Units	Results	Uncertainty	Limit 1	Limit 2	Start Test End Test
Sample Prepared According to: UNI EN 12873-1:2014						
MTCtap - TOC *UNI EN 1484:1999*	µg/l	-				17/07/23 15/09/23
1st Period		**< 40**				17/07/23 08/09/23
2nd Period		**< 40**				17/07/23 11/09/23
3rd Period		**< 40**		500		17/07/23 14/09/23
* Additional Requirements		**Requirements meet**				17/07/23 03/10/23
* Recipe components that are subject to confidentiality		**Requirements meet**				17/07/23 18/09/23
Test carried on sample as received						
Enhancement of microbial growth *UNI EN 16421:2015 Met. 2*		**See Annex**				27/07/23 03/11/23

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 analitical 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 teh 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)

Follows Test Report n°: 23LA05374 . Release date 28/11/2023

Legend: **MIP = Internal test method**
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.
Limit 1:Evaluation Criteria Document for plastic and other organic materials in contact with drinking water as 7th March 2022 (3rd amendment) ANNEX A - Cold Water

Limit 2: Evaluation Criteria Document for plastic and other organic materials in contact with drinking water as 7th March 2022 (3rd amendment) ANNEX A - Warm and Hot Water

Reviews, notes, and comments:

End of test report n° **23LA05374**
Digitally signed file, according to law

Chief of Microbiology	**Chief of Laboratory**
Dott. Alessandra Notti	Dott. Chim Simone Giacomelli
Ord.Biol.Marche-Emilia Romagna n° ERM_A02487	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 analitical 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 teh 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)

OPINION

Dear Sir,

the given product Water Tank - Code OL20000036000 comes into contact with drinking water as intended.

A test according to UNI EN 12873-1:2014 and UNI EN 1420:2016 was supposed to provide information on whether the requirements of the KTW evaluation criteria, Annex A "Plastics" (status 03-2022) are fulfilled.

The determination of the enhancement of microbiological growth according to UNI EN 16421 was part of this investigation.

The formulation review of the above-mentioned product was carried out in accordance with the specifications of chapter 5.2 of KTW evaluation criteria, and reported elsewhere.

The test speciment meet the basic requirements reported in the KTW evaluation criteria for the category CONTAINERS AND TANKS (P1) for cold water (23°C) applications.
The requirements for the formulation are met.
The requirements for the enhancement of microbial growth are met.

The opion reported above is not under the scope of the accreditation of the Laboratory accordingi to UNI CE EN ISO/IEC 17025:2018.

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 analitical 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 teh 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)