

Test report n°: **23LA13083** of **22/08/2023**

Dear  
**HIDROTEN S.A.**  
Poligono Industrial Pla De La Vallonga c/Agua 28  
03006 Alicante ( )

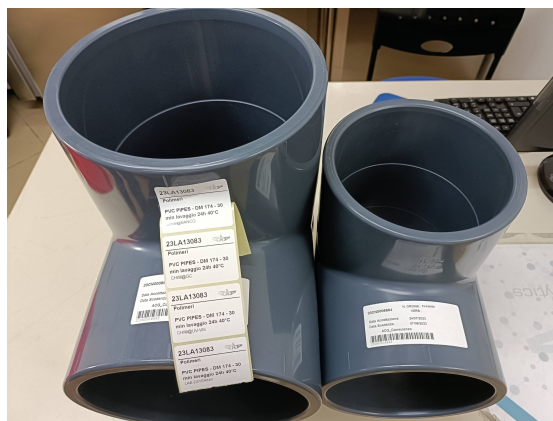
#### Acceptance Data

Subject of the test: **Polymers**

Transport: **Cliente**

Date of arrival: **28/07/2023** Time of arrival: **12.26**

Acceptance date: **28/07/2023**



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#### Sample data

Description: **23CN0006663 - 23CN0006664 - PVC PIPES**

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#### Sampling data

Sampling by: **Cliente**

Place: **Sede del Cliente**

The analytical results are exclusively referred to the sample.  
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**Laboratory registered in the list of regional laboratories carrying out analysis in the context of self-control procedures for Food Industries No. 52. It is the responsibility of the OSA to communicate the warnings to the bodies in charge**

Mod.PT01.01 Rev.9

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Parameter - Specification <i>Method - Notes</i>	M.U.	Results Notes	LoQ	LoD	Test start Test end
Overall migration into aqueous food simulant EN 1186-1:2002 + EN 1186-3:2022					28/07/2023
Contact method:		<b>Metodo 1: immersione totale</b>			01/08/2023 01/08/2023
Simulant used		<b>Acqua</b>			01/08/2023 01/08/2023
Temperature of the test	°C	<b>40</b>			01/08/2023 01/08/2023
Duration of contact		<b>24h</b>			01/08/2023 01/08/2023
Surface - Volume Ratio (calculated on sample 1)	dm <sup>2</sup> /l	<b>2,8</b>			01/08/2023 02/08/2023
Global migration of the sample 1 in the simulant solvent	mg/dm <sup>2</sup>	<b>1,8</b>	1		01/08/2023 07/08/2023
Global migration of the sample 2 in the simulant solvent	mg/dm <sup>2</sup>	<b>1,3</b>	1		01/08/2023 07/08/2023
Global migration of the sample 3 in the simulant solvent	mg/dm <sup>2</sup>	<b>3,0</b>	1		01/08/2023 07/08/2023
Average Global migration in the simulant solvent	mg/dm <sup>2</sup>	<b>2,0</b>	1		01/08/2023 07/08/2023
Global migration of the sample 1 in the simulant solvent	mg/kg	<b>10,6</b>	6		01/08/2023 07/08/2023
Global migration of the sample 2 in the simulant solvent	mg/kg	<b>8,1</b>	6		01/08/2023 07/08/2023
Global migration of the sample 3 in the simulant solvent	mg/kg	<b>18,1</b>	6		01/08/2023 07/08/2023
Average Global migration in the simulant solvent	mg/kg	<b>12</b>	6		01/08/2023 07/08/2023
Migration of dyestuffs DM 21/03/1973 SO GU n° 104 20/04/1973 All IV Sez 7	% T	<b>&gt; 98.0</b>	0		07/08/2023 07/08/2023
* DEHP-Bis (2-ethylhexyl)phthalate (cas 117-81-7) - Specific migration UNI EN 13130-1:2005	mg/kg	<b>NQ</b>	0,1		07/08/2023 08/08/2023
* DIDP-Diisodecyl phthalate (cas 68515-49-1) - Specific migration UNI EN 13130-1:2005	mg/kg	<b>NQ</b>	1		07/08/2023 08/08/2023
* DIDP-Diisodecyl phthalate (cas 26761-40-0) - Specific migration UNI EN 13130-1:2005	mg/kg	<b>NQ</b>	1		07/08/2023 08/08/2023
* BBP-Benzyl butyl phthalate (cas 85-68-7) - Specific migration UNI EN 13130-1:2005	mg/kg	<b>NQ</b>	1		07/08/2023 08/08/2023

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* DBP-Dibutyl phthalate (cas 84-74-2) - Specific migration UNI EN 13130-1:2005	mg/kg	<b>NQ</b>	0,1		07/08/2023 08/08/2023
* DINP-Diisononyl phthalate (cas 28553-12-0) - Specific migration UNI EN 13130-1:2005	mg/kg	<b>NQ</b>	1		07/08/2023 08/08/2023
* DINP-Diisononyl phthalate (cas 68515-48-0) - Specific migration UNI EN 13130-1:2005	mg/kg	<b>NQ</b>	1		07/08/2023 08/08/2023
* DNOP-Di-n-Octil Phthalate (cas 117-84-0) - Specific migration UNI EN 13130-1:2005	mg/kg	<b>NQ</b>	0,1		07/08/2023 08/08/2023
* DEP-Diethyl phthalate (cas 84-66-2) - Specific migration UNI EN 13130-1:2005	mg/kg	<b>NQ</b>	0,1		07/08/2023 08/08/2023
* DMP-Dimethyl phthalate (cas 131-11-3) - Specific migration UNI EN 13130-1:2005	mg/kg	<b>NQ</b>	0,1		07/08/2023 08/08/2023
* DIBP-Diisobutyl phthalate (cas 84-69-5) - Specific migration UNI EN 13130-1:2005	mg/kg	<b>NQ</b>	0,1		07/08/2023 08/08/2023
* DCHP-Dicyclohexyl phthalate (cas 84-61-7) - Specific migration UNI EN 13130-1:2005	mg/kg	<b>NQ</b>	0,1		07/08/2023 08/08/2023
Aromatic amines: specific migration BVL LFGB §64 L 00.00-6:1995/Cor:2002	mg/kg	<b>NQ</b>	0,002		11/08/2023 11/08/2023
* Aluminium (as Al) - Specific Migration (le)EPA 6020B:2014	mg/kg	<b>NQ</b>	0,1		08/08/2023 21/08/2023
* Antimony (as Sb): Specific migration (le)EPA 6020A 2007	mg/kg	<b>NQ</b>	0,04		08/08/2023 21/08/2023
* Arsenic (as As) - Specific Migration (le)EPA 6020B:2014	mg/kg	<b>NQ</b>	0,001		08/08/2023 21/08/2023
* Barium (as Ba) - Specific Migration (le)EPA 6020B:2014	mg/kg	<b>NQ</b>	0,1		08/08/2023 21/08/2023
* Cadmium (as Cd) - Specific Migration (le)EPA 6020B:2014	mg/kg	<b>NQ</b>	0,001		08/08/2023 21/08/2023
* Chromium (as Cr) - Specific migration (le)EPA 6020A 2007	mg/kg	<b>NQ</b>	0,01		08/08/2023 21/08/2023
* Cobalt (as Co) - Specific Migration (le)EPA 6020B:2014	mg/kg	<b>NQ</b>	0,01		08/08/2023 21/08/2023
* Copper (as Cu) - Specific Migration (le)EPA 6020B:2014	mg/kg	<b>NQ</b>	0,01		08/08/2023 21/08/2023
* Europium (as Eu) - Specific migration (le)EPA 6020B:2014	mg/kg	<b>NQ</b>	0,01		08/08/2023 21/08/2023
* Gadolinio (as Gd) - Specific migration (le)EPA 6020B:2014	mg/kg	<b>NQ</b>	0,01		08/08/2023 21/08/2023

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3A Laboratori SRL - The tests are performed at the registered office

Via A.Volta 1/d Maserà di Padova - 35020 (PD) Email: 3alaboratori@lifeanalytics.it Tel. 049 0994658-0994671 Fax. 049 8868430

Cap. Soc. €100000,00 I.V. - REA di PD 378402 - Codice Fiscale, Iscriz. Reg. Imprese di Padova 04296730288 e Partita Iva 14996171006

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* Iron (as Fe) - Specific Migration (le)EPA 6020B:2014	mg/kg	<b>NQ</b>	1		08/08/2023 21/08/2023
* Lanthanum (as La) - Specific migration (le)EPA 6020B:2014	mg/kg	<b>NQ</b>	0,01		08/08/2023 21/08/2023
* Lead (as Pb) - Specific migration (le)EPA 6020B:2014	mg/kg	<b>NQ</b>	0,01		08/08/2023 21/08/2023
* Litium (as Li) - Specific Migration (le)EPA 6020B:2014	mg/kg	<b>NQ</b>	0,010		08/08/2023 21/08/2023
* Manganese (as Mn) - Specific Migration (le)EPA 6020B:2014	mg/kg	<b>NQ</b>	0,1		08/08/2023 21/08/2023
* Mercury (as Hg) - Specific Migration (le)EPA 6020A 2007	mg/kg	<b>NQ</b>	0,001		08/08/2023 21/08/2023
* Nichel (as Ni) - Specific Migration (le)EPA 6020B:2014	mg/kg	<b>NQ</b>	0,02		08/08/2023 21/08/2023
* Terbium (as Tb) - Specific migration (le)EPA 6020B:2014	mg/kg	<b>NQ</b>	0,05		08/08/2023 21/08/2023
* Zinc (as Zn) - Specific Migration (le)EPA 6020B:2014	mg/kg	<b>NQ</b>	0,5		08/08/2023 21/08/2023
* Tin (as Sn) - Specific migration (le)EPA 6020B:2014	mg/kg	<b>NQ</b>	0,001		08/08/2023 21/08/2023

If the sampling is not the responsibility of 3ALaboratori srl, the latter declines all responsibility with regard to sampling information as provided by the Customer; the results refer exclusively to the object tested unless otherwise specified in this Test Report. When these data include measurements that affect the measurement unit, the results expressed are obtained by processing them. The Acceptance Data is the responsibility of the Laboratory while the sample data are the responsibility of the Customer. If the sample is not suitable but the Customer chooses to continue anyway, the laboratory declines all responsibility for the results that could be influenced by the deviation. Unless otherwise indicated in the Test Report, the Laboratory applies the following decision rule for the evaluation of conformity from a limit: in the event that, taking into consideration the measurement uncertainty, the conformity of the result is not unequivocal, the Laboratory has decided to determine it through the direct comparison between the result obtained and the reference value, not considering the measurement uncertainty. The probability of false acceptance is less than 50%.

LEGEND: **U.M.** = Unit of measurement; **(Sup)** = upper limit; **(Inf)** = Lower Limit ; **LoQ** = limit of quantification, it is the lower limit of concentration above which it is possible to obtain a quantitative measurement instrumentally; in microbiology the LoQ is of a theoretical nature; **LoD** = limit of detectability, is the lower limit of concentration below which the sample cannot be detected; in qualitative analyzes it represents the minimum concentration at which an analyte can be determined or not; **NQ** = unquantifiable, indicates a value less than LoQ; **NR** = not detectable, indicates a value lower than LoD; "<x" or ">x" respectively indicate a value lower or higher than the measuring range of the test, where x is the result

**(s.s.)**: Parameters with the designation "s.s." they are determined or recalculated on the dry matter.

**(S)**: Indicates a change from the previous version of the Test Report.

**(le)**: Indicates that the parameters/activities are performed in subcontracting.

**UNLESS OTHERWISE SPECIFIED**: Quantitative microbiological tests are performed on single replica and two consecutive dilutions in accordance with UNI EN ISO 7218: 2013 (with the exception of the analysis of water and MPN); the results of this test report are not corrected for recovery factors (R) as the values of recovery are in the tolerance specified in the test method; summations are calculated using the criterion of the lower bound (LB)

**(\*)**: Test/activity not accredited by ACCREDIA

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**Notes:**

Come da ultimo aggiornamento del Reg. 2023/1442 il limite degli ftalati viene calcolato come sommatoria di DEHP, DBP, BBP e DIBP espressi come DEHP come da formula del regolamento citato.

**Conformity Declaration:**

In base ai risultati ottenuti, nelle condizioni di prova sopra esposte, il campione in esame risulta

IDONEO (RESULT: PASSED)

a venire in contatto con le sostanze alimentari.

Riferimenti legislativi : D.M.174 del 06/04/2004, D.M. 21/03/73, Reg. EU/10/2011 del 14/01/2011 e s.m.i.

**Technical Director**

Dr.ssa Sandra Salvò

Chimico

Ordine Interprov. Chimici del Veneto - Padova n° 1278 SEZ. A

----- End of Test Report -----

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