

AENOR laboratorio

Miguel Yuste, 12 - 28037 Madrid
Tfno. 91 440 12 24 - Fax. 91 440 12 25

REPORT N°: 24915/16/19028 MODIFICATION N° 1

TEST REPORT ISSUED BY AENOR

CUSTOMER IDENTIFICATION DATA:

NAME: RELIANCE WORLDWIDE CORPORATION EUROPE, S.L.
CENTER: RWC EUROPE
ADDRESS: AUTOVIA A-92, KM. 209
PLACE:
PROVINCE: GRANADA
COUNTRY: ESPAÑA

SAMPLE IDENTIFICATION DATA:

PRODUCT: MATERIAL PLÁSTICO
DESCRIPTION: ACCESSORIES
YOUR/REFER: EQUAL SLEEVE 020
PACKING DATE DATE OF SAMPLING
EXP. DATE: DATE OF RECEIPT: 27/10/16

REMARKS:

COURIER
Information provided by the customer
Manufactured in PPSU Radel NT5100 (SOLVAY)
Cold water

PHYSICO-CHEMICAL ANALYSIS

Start 28/10/16 - End 13/12/16

Parameter (Test Method)	Units	Results	Legislative Norm
pH (PE-312-SC)	(uds pH 20C)	6.5	≥6.5 ≤9.5
LEAD (PE-299-SC)	(µg/ L)	0.028 ± 0.006	≤10
CADMIUM (PE-287-SC)	(µg/ L)	<0.01	≤5.0
MERCURY (PE-294-SC)	(µg/ L)	<0.20	≤1.0
CONDUCTIVITY (PE-307-SC)	(µS/ cm)	<2	≤2500
ODOR (PE-310-SC)	(Unitless)	1	≤3
TASTE (Dilution Index)	(l dilution)	1	≤3
COLOR (PE-306-SC)	(mg/lPt/Co)	<5	≤15
ALUMINIUM (PE-303-SC)	(µg/ L)	<0.03	≤200
IRON (PE-308-SC)	(µg/ L)	<0.02	≤200
AMMONIUM (PE-304-SC)	(mg/ L NH ₄)	0.27 ± 0.04	≤0.5
NITRATES (PE-296-SC)	(mg/ L NO ₃)	<0.3	≤50
NITRITES (PE-297-SC)	(mg/l NO ₂)	<0.004	≤0.5
OXIDABILITY (PE-311-SC)	(mgO ₂ /L)	<1	≤5.0
TURBIDITY (PE-315-SC)	(U.N.F.)	<0.18	≤5
CHLORIDES (PE-305-SC)	(mg/l)	2.5 ± 0.9	≤250
COPPER (PE-289-SC)	(mg/l)	<0.02	≤2
ARSENIC (PE-283-SC)	(µg/ L)	0.071 ± 0.014	≤10

The uncertainty of the tests including in the accreditation scope, is available to the customer.

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CHROME (PE-290-SC)	(µg/l)	<0.05	≤50
SELENIUM (PE-300-SC)	(µg/l)	<1	≤10
MANGANESE (PE-309-SC)	(µg/l)	<0.02	≤50
SODIUM (PE-313-SC)	(mg/l)	1.90 ± 0.19	≤200
NICKEL (PE-295-SC)	(µg/l)	0.490 ± 0.098	≤20
ANTIMONY (PE-282-SC)	(µg/l)	<0.1	≤5.0
BENZENE (PE-284-SC)	(µg/l)	<0.1	≤1.0
BORON (PE-285-SC)	(mg/l)	0.30 ± 0.09	≤1.0
BROMATE (PE-286-SC)	(µg/l)	<3	≤10
CYANIDE (PE-288-SC)	(µg/l)	<0.01	≤50
1,2-DICHLOROETHANE (PE-291-SC)	(µg/l)	<0.5	≤3.0
FLUORIDE (PE-292-SC)	(mg/l)	<0.07	≤1.5
PAHs: (PE-293-SC)			
Benzo(k)fluoranthene	(µg/l)	<0.01	
Benzo(a)pyrene	(µg/l)	<0.005	≤0.010
Benzo(ghi)perylene	(µg/l)	<0.01	
Indeno(1,2,3-cd)pyrene	(µg/l)	<0.01	
Total	(µg/l)	<0.02	≤0.10
TRIHALOMETHANES: (PE-302-SC)			
Bromodichloromethane	(µg/l)	1.11 ± 0.22	
Bromoform	(µg/l)	<1	
Chloroform	(µg/l)	5.7 ± 1.1	
Dibromochloromethane	(µg/l)	<1	
Total	(µg/l)	6.8	≤100
TRICHLOROETEN + TETRACHLOROETEN: (PE-302-SC)			≤10
Trichloroethene	(µg/l)	<1	
Tetrachloroethene	(µg/l)	<1	
TOTAL ORGANIC CARBON (PE-320-SC)	(mg/l)	<0.50	
RESIDUAL COMBINED CHLORINE (Calculation)	(mg/l)	0.40	≤2.0
RESIDUAL FREE CHLORINE (PE-32-OG)	(mg/l)	<0.05	≤1.0
TOTAL CHLORINE	(mg/l)	0.40	

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AENOR Asociación Española de Normalización y Certificación C.I.F. G78216819

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Parameter (Test Method)	Units	Results	Legislative Norm
(PE-33-QG)			
SULFATE	(mg/l)	<1	≤250
(PE-314-SC)			
MULTIRESIDUE PESTICIDES GC AL:			
(PE-298-SC)			
Aldrin	(µg/l)	<0.015	≤0.03
Dieldrin	(µg/l)	<0.015	≤0.03
Heptachlor	(µg/l)	<0.015	≤0.03
Heptachlor epoxide	(µg/l)	<0.015	≤0.03
Total	(µg/l)	<0.015	≤0.50
MULTIRESIDUE PESTICIDES LC AL:			≤0.10
(PE-316-SC)			
Desisopropylatrazine	(µg/l)	<0.01	≤0.10
Dichlorprop	(µg/l)	<0.01	≤0.10
Dimethoate	(µg/l)	<0.01	≤0.10
Diurone	(µg/l)	<0.01	≤0.10
2,4-Dichlorophenoxy acid	(µg/l)	<0.01	≤0.10
Ethofumesate	(µg/l)	<0.01	≤0.10
Fenoxaprop	(µg/l)	<0.01	≤0.10
Glyphosate	(µg/l)	<0.01	≤0.10
Hexazinone	(µg/l)	<0.01	≤0.10
Pendimethalin	(µg/l)	<0.01	≤0.10
Isoproturon	(µg/l)	<0.01	≤0.10
Chloridazone	(µg/l)	<0.01	≤0.10
Chlorosulphuron	(µg/l)	<0.01	≤0.10
Quinmerac	(µg/l)	<0.01	≤0.10
MCPA	(µg/l)	<0.01	≤0.10
Mecoprop	(µg/l)	<0.01	≤0.10
Metamitron	(µg/l)	<0.01	≤0.10
Metazachlor	(µg/l)	<0.01	≤0.10
Metribuzin	(µg/l)	<0.01	≤0.10
Metsulfuron methyl	(µg/l)	<0.01	≤0.10
Simacine	(µg/l)	<0.01	≤0.10
Terbutylazine	(µg/l)	<0.01	≤0.10
Thifensulfuron-methyl	(µg/l)	<0.01	≤0.10
2,4,5-trichlorophenoxy acid	(µg/l)	<0.01	≤0.10
Total	(µg/l)	<0.01	≤0.50
ACRYLAMIDE	(µg/l)	<0.050	≤0.1
(PE-317-SC)			
EPICLORHYDRINE	(µg/l)	<0.10	≤0.1
(PE-318-SC)			
VINYL CHLORIDE	(µg/l)	<0.10	≤0.50
(PE-319-SC)			

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PHYSICO-CHEMISTRY DEPARTMENT:

Standards applied in this report:

The method of migration carried out is that indicated in the UNE -EN 12873-1 (December 2014): "Influence of materials on water intended for human consumption Influence of migration Part 1: Test method of materials of industrial manufacture Which are constituted or contain organic or vitreous materials (vitreous or porcelain glazes).

The test piece is subjected to a process consisting of the following steps:

Specific pretreatment:

- * Power cleaning
- * Static contact with test water
- * Prewash

Migration test: during three sequential periods of migration. A migration period is 72 hours at 23 ° C in chlorinated test water with 1 mg / l.

Characteristics of the test:

- * Test water: chlorinated distilled water with 1 mg / l.
- * Migration temperature: 23 ° C
- * Contact time: after the pretreatment of the sample, three migration cycles of 72 hours are carried out, thus obtaining 3 test samples; The parameters are analyzed in the first migration cycle after 72 hours.
- * Volume of the sample: 1 liter in a cycle of 72 hours, with 1 mg / l Cl₂.
- Contact surface: 5.4 dm²
- Surface / volume ratio: 5.4 dm⁻¹

The evaluation of the data obtained in the water of migration has been made with the values established in Reall Decree 140/2003, of February 7, which establishes sanitary criteria for the quality of water for human consumption.

Conclusion: The values obtained in the parameters analyzed in the test water are within the limits established in Real Decree 140/2003, as amended by Real Decree 314/2016.



Director Técnico
Agustina Sánchez Díaz
Madrid, 27th of December of 2016