OFI Technologie & Innovation GmbH
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OFI-Technologie & Innovation GmbH states that the producer´s

WELTPLAST d.o.o.

BiH-88240 Posusje, Rastovaca bb

Plastic Pipes out of Polypropylene-Random-Copolymer Enhanced Crystalline Structure Improved Temperature Resistance (PP-RCT) and fittings out of Polypropylene-Randorn-Copolymer (PP-R) for hot and cold drinking water installations in the dimension-groups 1 (10 mm ≤ dn ≤ 63 mm) and 2 (63 mm < dn ≤ 160 mm) as well as fitting-groups 1, 2, 3 and 4 in the pressure-groups 1 and 2 listed in the inspection contract W0620 are fulfilling all requirements according to

EN ISO 15874-Series:2013

Plastic piping systems for hot and cold-water installations - Polypropylene (PP)

Part 1: General

Part 2: Pipes (incl. Al:2018)

Part 3: Fittings (incl. A1:2018)

Part 5: System (incl. Al :2018)

This confirmation is issued on base of the last inspection report mentioned below.

Date of first Issue:	2009-09-04
Valid to:	2021-12-01
Test report No.:	1800798/4590/1

Vienna, 2021-05-17

OFI-Technologie & Innovation GmbH

Martin Kerschenbauer
Piping Department

DI Udo Pappler
CEO

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CERTIFIKAT O STALNOSTI SVOJSTAVA

1/05-ZGP-2271
Izmjena i dopuna br.1

Ovaj certifikat, u skladu sa Zakonom o građevnim proizvodima („Narodne novine" br. 76/13, 30/14, 130/17 i 39/19), Pravilnikom o ocjenjivanju sukladnosti, ispravama o sukladnosti i označavanju građevnih proizvoda („Narodne novine" br. 103/08, 147/09, 87/10 i 129/11) i Tehničkim propisom o građevnim proizvodima („Narodne novine" br. 35/18) vrijedi za građevne proizvode:

Weltplasttherm PP RCT

Cijevi i spojnice za opskrbu vodom za ljudsku potrošnju:

Cijevi:
Skupina 1:nominalni vanjski promjer - (d_n16 - d_n63), nominalni tlakovi – PN8/PN10
Skupina 2: nominalni vanjski promjer - (d_n63 - d_n160), nominalni tlakovi – PN8/PN10
Spojnice:
Skupine 1, 2, 3, 4: nominalni tlakovi – PN8/PN10

koje je na tržište stavio:

Weltplast d.o.o
Velika Cesta 33, Odra, HR-10020 Zagreb

proizvedene u proizvodnom pogonu:

Weltplast d.o.o.
Rastovača bb, BA-88240 Posušje

Ovim se certifikatom potvrđuje da su primijenjene sve odredbe koje se odnose na ocjenjivanje i provjeru stalnosti svojstava i svojstva opisana u normi

HRN EN ISO 15874-2:2013 i HRN EN ISO 15874-3:2013

te članku 37 stavak 4 Pravilnika o zdravstvenoj ispravnosti materijala i predmeta koji dolaze u neposredan dodir s hranom (NN 125/09 i NN 31/11) kao i članku 5 Zakona o izmjenama i dopunama Zakona o vodi za ljudsku potrošnju (NN 104/2017),

u skladu sa sustavom 1+ za svojstva navedena u ovom certifikatu te da je izvršena ocjena kontrole tvorničke proizvodnje koju provodi proizvođač da bi se osigurala

stalnost svojstava građevnog proizvoda.

Predmetni certifikat je prvi put izdan **26. ožujka 2012.(1/05-ZGP-1360)** i ima valjanost sve dok se značajno ne promijeni bilo tehnička specifikacija, građevni proizvod, metoda ocjenjivanja i provjere stalnosti svojstava ili uvjeti proizvodnje u proizvodnom pogonu, osim ukoliko ga ne suspendira ili povuče odobreno tijelo Institut IGH d.d.

OD 12/069-059

Odgovorna osoba

mr. sc. Zdravko Baršić, dipl.ing.stroj.

Zagreb, 14. listopad 2019.
OBPOC46-02/01CP_HRN_izdanje2Rev3

NASTAVNI ZAVOD ZA JAVNO ZDRAVSTVO
SPLITSKO-DALMATINSKE ŽUPANIJE

Služba za zdravstvenu ekologiju- 21000 SPLIT, Vukovarska 46
Odjel za kemijske analize hrane i predmeta opće uporabe tel./fax. 539-825
Odjel za kontrolu sterilnosti i sterilizacije,Odsjek za mikrobiologiju POU tel.401-169
Odjel opće zdravstvene ekologije, tel 401-168

Akreditirane metode u fiksnom području označene su znakom (*), a u fleksibilnom području znakom (**).

Rješenjem Ministarstva poljoprivrede RH Odjel za kemijske analize hrane i POU i Odjel sanitarne mikrobiologije ovlašteni su za obavljanje službenih analiza. Metode su označene znakom (#).

Split, 01.03.2021

ANALITIČKO IZVJEŠĆE

ANALITIČKI BROJ **20-1664**
Zahtjev :

Naručitelj: Weltplast d.o.o.
Rastovača b.b.
88240 Posušje
Bosna i Hercegovina
OIB

Vlasnik: Weltplast d.o.o.
Rastovača b.b.
88240 Posušje
Bosna i Hercegovina

Objekt:

Uzorak : **PP-RCT cijevi i spojni elementi**

Datum uzimanja uzorka :

Datum dostave uzorka : 17.11.2020.

Dostavljen je uzorak u svrhu izdavanja certifikata o zdravstvenoj ispravnosti. Uz uzorak je dostavljen tehnički list i sigurnosna lista materijala od kojih se uzorak izrađuje.

Opis uzorka :
Dostavljen je uzorak :
PP-RCT cijevi i spojni elementi
Cijevi i spojni elementi se rade od materijala Beta-PPR RA7050-GN (Borealis), boja: zelena. Cijevi su različitog vanjskog promjera od fi 20mm do fi 110 mm, zelene boje.

REZULTATI ISPITIVANJA

Senzorski opis :
Uzorak je dobre izrade, bez oštrih rubova i vidljivih oštećenja.

KEMIJSKA ANALIZA

Naziv analize	Oznaka metode	Rezultat	Mjerna nesigurnost	Mjerna jedinica	
Specificna migracija					()
Bakar (Cu)	HRN EN ISO 15586:2008	< 1		ug/l	(-)
Olovo (Pb)	HRN EN ISO 15586:2008	< 1		ug/L	(-)
Kadmij (Cd)	HRN EN ISO 15586:2008	< 0.3		ug/L	(-)
Cink (Zn)	HRN ISO 8288:1998	< 10		ug/L	(-)
Mangan (Mn)	HRN EN ISO 15586:2008	< 1		ug/L	(-)
Željezo (Fe)	HRN EN ISO 15586:2008	< 1		ug/L	(-)
Nikal (Ni)	HRN EN ISO 15586:2008	< 1		ug/L	(-)
Krom (Cr)	HRN EN ISO 15586:2008	< 1		ug/L	(-)
Arsen (As)	HRN EN ISO 15586:2008	< 1		ug/l	(-)
Alumiji (Al)	HRN EN ISO 15586:2008	< 1		ug/L	(-)
Kobalt (Co)	HRN EN ISO 11885:2010	< 0.3		ug/L	(-)
Barij (Ba)	HRN EN ISO 11885:2010	10.8		ug/l	(-)
Bor (B)	HRN EN ISO 11885:2010	< 0.013		mg/l	(-)
Vanadij (V)	HRN EN ISO 11885:2010	< 1		ug/l	(-)
Berilij (Be)	HRN EN ISO 11885:2010	0.0141		ug/l	(-)
Formaldehid	HRN CEN/TS 13130-23	< 0.01		mg/dm2	(-)
Primarni aromatski amini	UV VIS	< 0.01		mg/dm2	(-)
Ukupni organski ugljik (TOC)	HRN EN 1484:2002	2.212		mg/l	(-)
Fenol		< 0.002		mg/m2/dan	(-)
Slobodni rezidualni klor		< 0.05		mg/L	(-)

Uzorak je tretiran u neposrednom dodiru s vodom za piće tijekom tri uzastopne ekstrakcije, svaka po 72 sata.
Ocjenjeni su rezultati trećeg ispitivanja.

Legenda: (-) odgovara normativu
(+) ne odgovara normativu

Voditelj Odsjeka za plinsku kromatografiju:
Zrinka Majić, dipl.ing.

MIKROBIOLOŠKA ANALIZA

Analiza započeta : 19.11.2020 Analiza završena : 24.11.2020

Naziv analize	Kolicina uzorka, mjerna jedinica	Rezultat	Mjerna nesigurnost	Naziv metode
Aerobne mezofilne bakterije	u 1 ml	<10 (-)		HRN EN ISO 21149:2017
Staphylococcus aureus	u 1 ml	0 (-)		HRN EN ISO 22718:2016
Pseudomonas aeruginosa	u 1 ml	0 (-)		HRN EN ISO 22717:2016
Enterobacteriaceae	u 1 ml	0 (-)		HRN EN ISO 21150:2016

Legenda: (-) odgovara normativu
(+) ne odgovara normativu

Voditelj Odsjeka za mikrobiološko ispitivanje predmeta opće uporabe
Claudia Vučica, dr.vet.med.

ZAKLJUČAK:

Prema ispitanim parametrima uzorak ODGOVARA Zakonu o vodi za ljudsku potrošnju (NN 56/13) i Pravilniku o parametrima sukladnosti i metodama analize vode za ljudsku potrošnju (NN 125/17), te Direktivi Vijeća 1988/83/EZ.
Prema ispitanim parametrima uzorak je sukladan Uredbi 10/2011 o plastičnim materijalima koji dolaze u dodir s hranom sa svim izmjenama i dopunama.

Prema ispitanim mikrobiološkim parametrima uzorak je SUKLADAN Zakonu o materijalima i predmetima koji dolaze u neposredan dodir s hranom (NN25/13,41/14) utemeljenom na Uredbi EZ br.1935/2004 Europskoga parlamenta i Vijeća o materijalima i predmetima u neposrednom dodiru sa hranom, te Pravilniku o zdravstvenoj ispravnosti materijala i predmeta koji dolaze u neposredan dodir s hranom (NN125/09,31/11)čl.12. uključujući sve važeće izmjene i dopune regulative.

Voditelj Odjela za kemijske analize hrane i POU:
Doc.dr.sc. Zlatka Knezović, dipl.ing.

Voditelj Odjela za kontrolu sterilnosti i sterilizacije
Danica Tandara, dr.med. specijalist medicinske mikrobiologije s parasitologijom

----- Kraj analitičkog izvješća -----

Ovaj dokument je pravovaljan bez pečata i potpisa.

PUBLIC HEALTH INSTITUTE OF SPLIT AND DALMATIA COUNTY

Environmental Health Service – 21000 SPLIT, Vukovarska 46
Food and Consumer Goods Examination Department phone/fax: 539-825
Sanitary microbiology Department phone: 401-169

Accredited test methods are signed with sign (*) in the fixed area, and in the flexible one with sign (**)

According to the decision of the Ministry of Agriculture, Food and Consumer Goods Examination Department and Sanitary Microbiology Department are authorized as an official laboratory; methods are signed with sign (#)

Split, 01.03.2021.

ANALYTICAL REPORT

Analytical sample number: **20-1664**
Purchase order No:

Client: "**Weltplast**" d.o.o
Rastovača b.b.
88 240 Posušje
Bosnia and Hercegovina

Proprietor: "**Weltplast**" d.o.o

Sample: PP-RCT fittings for pipes and pipes
Date of sampling:
Date of delivery: 17.11.2020.

Sample description:
The sample was delivered for the purpose of obtaining certification on its health propriety. Technical data sheet and MSDS for materials from which the sample is made were delivered with the sample.
Sample is:
PP-RCT fittings for pipes and pipes
The fittings for pipes and pipes are made of the material Beta-PPR RA7050-GN (Borealis). The pipes are made with different outer diameter from ϕ 20 to ϕ 110 mm, in green color.

TEST RESULTS

Sensory examination

The sample is well made, free of extraneous odors and visible damage.

CHEMICAL ANALYSIS

.Analysis	Method	Result	Uncertainty	Measuring Unit
Specific migration				

Heavy metals				
Lead (Pb)	HRN EN ISO 15586:2008	< 1	µg/L	(-)
Cadmium (Cd)	HRN EN ISO 15586:2008	< 0.3	µg/L	(-)
Zinc (Zn)	HRN EN ISO 8288:1998	< 10	µg/L	(-)
Manganese (Mn)	HRN EN ISO 15586:2008	< 1	µg/L	(-)
Iron (Fe)	HRN EN ISO 15586:2008	< 1	µg/L	(-)
Nickel (Ni)	HRN EN ISO 15586:2008	< 1	µg/L	(-)
Chromium (Cr)	HRN EN ISO 15586:2008	< 1	µg/L	(-)
Copper (Cu)	HRN EN ISO 15586:2008	< 1	µg/L	(-)
Arsenic (As)	HRN EN ISO 15586:2008	< 1	µg/L	(-)
Aluminum (Al)	HRN EN ISO 15586:2008	< 1	µg/L	(-)
Cobalt (Co)	HRN EN ISO 11885:2010	< 0.3	µg/L	(-)
Barium (Ba)	HRN EN ISO 11885:2010	10.8	µg/L	(-)
Boron (B)	HRN EN ISO 11885:2010	<0.013	mg/L	(-)
Vanadium (V)	HRN EN ISO 11885:2010	< 1	µg/L	(-)
Berilium (Be)	HRN EN ISO 11885:2010	0.0141	µg/L	(-)
Formaldehyde	HRN CEN/TS 13130-23	< 0.01	mg/dm^2	(-)
Primary aromatic amines (as aniline hydrochloride)	UV VIS	< 0.01	mg/dm^2	(-)
TOC	HRN EN ISO 1484:2002	2.212	$mg/m^2/day$	(-)
Phenol		< 0.002	$mg/m^2/day$	(-)
Free residual chlorine		< 0.05	mg/L	(-)

The sample was treated in direct contact with drinking water for three consecutive extractions, each for 72 hours. The results of the third study were evaluated.

LEGEND: (-) in accordance with normative
(+) not in accordance with normative

Expert associate:
Zrinka Majić, Graduate Engineer

MICROBIOLOGICAL ANALYSIS

Analysis started: 19.11.2020. Analysis completed: 24.11.2020.

Name of analysis	**Sample quantity**	**Result**	**Uncertainty**	**Method**
Aerobic mesophilic bacteria	in 1ml	< 10 (-)		# HRN EN ISO 21149:2017
Staphylococcus aureus	in 1 ml	0 (-)		# HRN EN ISO 22718:2016
Pseudomonas aeruginosa	in 1 ml	0 (-)		# HRN EN ISO 22717:2016
Enterobacteriaceae	in 1 ml	0 (-)		# HRN EN ISO 21150:2016

LEGEND: (-) in accordance with normative
(+) not in accordance with normative

Expert in microbiological department:
Claudia Vučica, Doctor of Veterinary Medicine

CONCLUSION:

With regard to parameters, the analyzed sample is considered to be IN ACCORDANCE with the requirement of the Law on water for human consumption (NB 55/13) and the Regulations on the on compliance parameters and methods of analysis of water for human consumption (NB 125/13) and Council Directive 1988/83 / EC.

With regard to parameters, the analyzed sample is considered to be IN ACCORDANCE with Regulation 10/2011 with all amendments on plastic materials that come into contact with food.

With regard to microbiological parameters, the analyzed sample is considered to be IN ACCORDANCE with the requirement of the Law on materials and articles intended for contact with food (NB 25/13, 41/14) based on Regulations EZ 1935/2004 of the European Parliament and of the Council on materials and articles intended for contact with food; as well as Regulation on the health propriety of materials and articles intended for contact with food (NN 125/09, 31/11) art.12. including all relevant amendments to these regulations.

HEAD OF CHEMICAL DEPARTMENT:
PhD Zlatka Knezović, Graduated Engineer

HEAD OF DEPARTMENT FOR STERILITY AND STERILIZATION CONTROL:
Danica Tandara, M. D. Specialist of medical microbiology and parasitology

- End of analytical report -
This document is valid without seals and signatures

Remark:
1. The results relate solely to the sample analyzed and must not be duplicated without the approval of the executor, or used for advertising purposes
2. It is forbidden to mention the name of the institute in the text of the product declaration unless it is regulated by a special contract
3. The laboratory disclaims all responsibility for the claims made by the client about the sample
4. Sampling uncertainty is not included in measurement uncertainty
5. Measurement uncertainty is expressed as an expanded measurement uncertainty with a coverage factor k = 2, representing a 95 % confidence level
6. When deciding the measurement results, a decision rule based on security spacing is applied, whereby the spacing is an expanded measurement uncertainty
7. Conformity assessment is outside the scope of accreditation