

Approval Number: 1807548
Test Report: M106615A, M106670 & M106779



29th March 2019

Eppinco Plastic Pipes Industry LLC
PO Box 86105,
RAK - UAE

Water Regulations Advisory Scheme Ltd.
Unit 13,
Willow Road,
Pen y Fan Industrial Estate,
Crumlin,
Gwent,
NP11 4EG

WATER REGULATIONS ADVISORY SCHEME LTD. (WRAS)
MATERIAL APPROVAL

The material referred to in this letter is suitable for contact with wholesome water for domestic purposes having met the requirements of BS6920-1:2000 and/or 2014 'Suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on the quality of the water'.

The reference relates solely to its effect on the quality of the water with which it may come into contact and does not signify the approval of its mechanical or physical properties for any use.

POLYPROPYLENE - COMPONENTS.

5260

'Emipipe'. Green coloured, extruded PPR pipe. For use with water up to 60°C.

APPROVAL NUMBER: 1807548
APPROVAL HOLDER: EPPINCO PLASTIC PIPES INDUSTRY LLC

The Scheme reserves the right to review approval.
Approval 1807548 is valid between July 2018 and July 2023

An entry, as above, will accordingly be included in the Water Fittings Directory on-line under the section headed, "Materials which have passed full tests of effect on water quality".

The Directory may be found at: www.wras.co.uk/directory

Yours faithfully

A handwritten signature in dark ink, appearing to read 'J Furnival', written in a cursive style.

Jason Furnival
Approvals & Enquiries Manager
Water Regulations Advisory Scheme

WRAS MATERIAL APPROVAL - MATERIALS WHICH HAVE PASSED FULL TESTS OF EFFECT ON WATER QUALITY

The material referred to in this letter is suitable for contact with water for domestic purposes. **Approval of this material does not signify the approval of its mechanical or physical properties for any use.**

Manufacturers or applicants may only quote in their sales literature terms which are used in this letter, namely that; 'the material as listed, having passed the tests of effect on water quality, is suitable for use in contact with wholesome water'

This may be abbreviated to 'Water Regulations Advisory Scheme - Approved Material' or 'WRAS Approved Material'.

The scope of an Approval does not extend to rebranded materials unless otherwise agreed by the Scheme.

Use of the WRAS Approved Material Logo

Approval holders may use the WRAS Approved Material logo and make reference to any approval issued by WRAS Ltd. in respect of a particular material or range of materials provided the approval is, and remains valid.

Approval holders are entitled to use the logo on the packing, promotional literature and point of sale advertising Approved Materials.

Modifications to existing Approvals

It is a condition of WRAS Material Approval that NO changes or modifications to the Approved Material, be made without the Approval Holder first notifying WRAS Ltd. Full details of the proposed changes must be provided to the Scheme. Failure to comply with this condition will immediately invalidate a previously granted Approval.

Re-Approval

WRAS will write to you 1 year before the approval expires asking whether you would like to renew it. Please complete the relevant section of the MA3 application form which will be included with the letter and return to WRAS (via e-mail or post).

Please note it is the responsibility of the Approval Holder to ensure the Approval remains valid. WRAS Ltd. accepts no liability for the delay in granting approval where this is caused by circumstances outside of the Scheme's control.

Approval Number: 1807548
Test Report: M106615A & M106670



29th January 2019

Eppinco Plastic Pipes Industry LLC
PO Box 86105,
RAK - UAE

Water Regulations Advisory Scheme Ltd.
Unit 13,
Willow Road,
Pen y Fan Industrial Estate,
Crumlin,
Gwent,
NP11 4EG

WATER REGULATIONS ADVISORY SCHEME LTD. (WRAS)
MATERIAL APPROVAL

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The reference relates solely to its effect on the quality of the water with which it may come into contact and does not signify the approval of its mechanical or physical properties for any use.

POLYPROPYLENE - COMPONENTS.

5260

'Emipipe'. Green coloured, extruded PPR pipe. For use with water up to 23°C.

APPROVAL NUMBER: 1807548
APPROVAL HOLDER: EPPINCO PLASTIC PIPES INDUSTRY LLC

The Scheme reserves the right to review approval.
Approval 1807548 is valid between July 2018 and July 2023

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Jason Furnival
Approvals & Enquiries Manager
Water Regulations Advisory Scheme

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Approval Number: 1807549
Test Report: M106615/B, M106615/A & M106670



7th February 2019

Eppinco Plastic Pipes Industry LLC
PO Box 86105,
RAK - UAE

Water Regulations Advisory Scheme Ltd.
Unit 13,
Willow Road,
Pen y Fan Industrial Estate,
Crumlin,
Gwent,
NP11 4EG

WATER REGULATIONS ADVISORY SCHEME LTD. (WRAS)
MATERIAL APPROVAL

The material referred to in this letter is suitable for contact with wholesome water for domestic purposes having met the requirements of BS6920-1:2000 and/or 2014 'Suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on the quality of the water'.

The reference relates solely to its effect on the quality of the water with which it may come into contact and does not signify the approval of its mechanical or physical properties for any use.

POLYPROPYLENE - COMPONENTS.

5260

'Emipipe'. Green coloured, injection moulded PPR fitting. For use with water up to 70°C.

APPROVAL NUMBER: 1807549
APPROVAL HOLDER: EPPINCO PLASTIC PIPES INDUSTRY LLC

The Scheme reserves the right to review approval.
Approval 1807549 is valid between July 2018 and July 2023

An entry, as above, will accordingly be included in the Water Fittings Directory on-line under the section headed, "Materials which have passed full tests of effect on water quality".

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Jason Furnival
Approvals & Enquiries Manager
Water Regulations Advisory Scheme

WRAS MATERIAL APPROVAL - MATERIALS WHICH HAVE PASSED FULL TESTS OF EFFECT ON WATER QUALITY

The material referred to in this letter is suitable for contact with water for domestic purposes. **Approval of this material does not signify the approval of its mechanical or physical properties for any use.**

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Dubai Central Laboratory

Engineering Materials Laboratory Section – Structural Unit

TEST REPORT

DIMENSION OF PPR PIPES

REPORT NO. : 2016095130 DATE : 08/08/2016
WEB REQUEST NO. : DCL-27072016-0274
REQUEST NO. : 2016063656 SAMPLE NO. : 2016089712
PROJECT NO. : PS16-0163
PROJECT NAME : EPPINCO PLASTIC PIPES INDUSTRY LLC
CONSULTANT : NO SPECIFIC CONSULTANT
CONTRACTOR : NO SPECIFIC CONTRACTOR
LOCATION : AL GHAIL INDUSTRIAL AREA-RAK
SOURCE : EPPINCO PLASTIC PIPES INDUSTRY LLC - RAK
SAMPLE DESCRIPTION: POLY PROPYLENE PIPE (PP)
SAMPLE TYPE : NG
SUPPORT / FACING : NIL
NOM. THICKNESS (mm): NG
NOM. DENSITY (kg/m³) : NG

Date of Sampling	: 27/07/2016	Time	: 10:00	Lot No.	: 270716
Date of Receiving Sample	: 31/07/2016	Time	: 12:00	Lot Size	: NG
Size of Sample	: 6 Nos	Area No.	: -	Sender No.	: NG

DATE SPECIMEN RECEIVED	31/07/2016
DATE MEASURED	07/08/2016
TEST TEMPERATURE (°C)	23 ± 2°C
SPECIMEN NOMINAL LENGTH (mm)	NG
SPECIMEN NOMINAL THICKNESS (mm)	NG
SPECIMEN NOMINAL DIAMETER (mm)	25.0

SPECIMEN NO.	1	2	3
LENGTH (mm)	3970.0	3970.0	3969.0
OUTER DIAMETER (mm)	25.7	25.8	25.6
MINIMUM WALL THICKNESS (mm)	4.5	4.5	4.5
MAXIMUM WALL THICKNESS (mm)	4.6	4.6	4.6

SAMPLED BY : IBRAHIM BAKR (Mfr.) TESTED BY : NAZRUL ISLAM
SAMPLES BROUGHT IN BY : IBRAHIM BAKR (Mfr.) TSET START DATE : 02/08/2016
SAMPLING METHOD : NOT GIVEN
SAMPLING REPORT NO. : -
TEST METHOD : DIN- 8078 :2008-09
TEST METHOD VARIATION : NIL
REMARKS : THIS REPORT REPRESENTS THE SUBMITTED SAMPLE ONLY.

AUTHORIZED BY
HEAD OF UNIT

This report is computer approved, it does not require any signature



Dubai Central Laboratory

Engineering Materials Laboratory Section – Structural Unit

TEST REPORT

LONGITUDINAL REVERSION OF PPR PIPES

REPORT NO. : 2016095128 DATE : 08/08/2016
WEB REQUEST NO. : DCL-27072016-0274
REQUEST NO. : 2016063656 SAMPLE NO. : 2016089712
PROJECT NO. : PS16-0163
PROJECT NAME : EPPINCO PLASTIC PIPES INDUSTRY LLC
CONSULTANT : NO SPECIFIC CONSULTANT
CONTRACTOR : NO SPECIFIC CONTRACTOR
LOCATION : AL GHAIL INDUSTRIAL AREA-RAK
SOURCE : EPPINCO PLASTIC PIPES INDUSTRY LLC - RAK
SAMPLE DESCRIPTION: POLY PROPYLENE PIPE (PP)
SAMPLE TYPE : NG
SUPPORT / FACING : NIL
NOM. THICKNESS (mm): NG
NOM. DENSITY (kg/m³) : NG

Date of Sampling : 27/07/2016 Time : 10:00 Lot No. : 270716
Date of Receiving Sample : 31/07/2016 Time : 12:00 Lot Size : NG
Size of Sample : 6 Nos Area No. : - Sender No. : NG

DATE SPECIMEN RECEIVED	31/07/2016
DATE HEATED	07/08/2016
PRECONDITIONING TEMP. & DURATION	23 ± 2°C & 24Hr.
TEMPERATURE EXPOSURE EQUIPMENT	AIR OVEN
SPECIMEN NOMINAL LENGTH (mm)	200.00
SPECIMEN NOMINAL THICKNESS (mm)	NG
SPECIMEN NOMINAL DIAMETER (mm)	25.00
TEST TEMPERATURE (°C)	135
DURATION (H)	1

SPECIMEN NO.	1	2	3
APPEARANCE	NORMAL	NORMAL	NORMAL
% OF LONGITUDINAL REVERSION	0.11	0.14	0.14
CHANGE OF LENGTH (POSITIVE / NEGATIVE)	NEGATIVE	NEGATIVE	NEGATIVE

SAMPLED BY : IBRAHIM BAKR (Mfr.) TESTED BY : NAZRUL ISLAM
SAMPLES BROUGHT IN BY : IBRAHIM BAKR (Mfr.) TEST START DATE : 02/08/2016
SAMPLING METHOD : NOT GIVEN
SAMPLING REPORT NO. : -
TEST METHOD : DIN 8078: 2008-09& BSEN ISO 2505-05
TEST METHOD VARIATION : NIL
REMARKS : THIS REPORT REPRESENTS THE SUBMITTED SAMPLE ONLY.

**AUTHORIZED BY
HEAD OF UNIT**

This report is computer approved, it does not require any signature



Dubai Central Laboratory

Engineering Materials Laboratory Section – Structural Unit

TEST REPORT

SURFACE FINISH OF PPR PIPES

REPORT NO. : 2016095127 DATE : 08/08/2016
WEB REQUEST NO. : DCL-27072016-0274
REQUEST NO. : 2016063656 SAMPLE NO. : 2016089712
PROJECT NO. : PS16-0163
PROJECT NAME : EPPINCO PLASTIC PIPES INDUSTRY LLC
CONSULTANT : NO SPECIFIC CONSULTANT
CONTRACTOR : NO SPECIFIC CONTRACTOR
LOCATION : AL GHAIL INDUSTRIAL AREA-RAK
SOURCE : EPPINCO PLASTIC PIPES INDUSTRY LLC - RAK
SAMPLE DESCRIPTION : POLY PROPYLENE PIPE (PP)
SAMPLE TYPE : NG
SUPPORT / FACING : NIL
NOM. THICKNESS (mm) : NG
NOM. DENSITY (kg/m³) : NG

Date of Sampling : 27/07/2016 Time : 10:00 Lot No. : 270716
Date of Receiving Sample : 31/07/2016 Time : 12:00 Lot Size : NG
Size of Sample : 6 Nos Area No. : - Sender No. : NG

DATE SPECIMEN RECEIVED	31/07/2016
TEST START DATE	02/08/2016
SPECIMEN NOMINAL LENGTH (mm)	NG
SPECIMEN NOMINAL THICKNESS (mm)	NG
SPECIMEN NOMINAL DIAMETER (mm)	25.00

SPECIMEN NO.	1	2	3
BLISTERS	NIL	NIL	NIL
SHRINK HOLES	NIL	NIL	NIL
INHOMOGENITIES WHICH CAN AFFECT THE SERVICE	NIL	NIL	NIL
UNIFORMITY IN COLOUR	UNIFORM	UNIFORM	UNIFORM
SURFACE SMOOTHNESS (INTERNAL & EXTERNAL)	SMOOTH	SMOOTH	SMOOTH
UNACCEPTABLE CORRUGATIONS	NIL	NIL	NIL
SHARP EDGED GROOVES	NIL	NIL	NIL
SINK MARKS	NIL	NIL	NIL

RESULT	PASS	PASS	PASS
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SAMPLED BY : IBRAHIM BAKR (Mfr.) TESTED BY : NAZRUL ISLAM
SAMPLES BROUGHT IN BY : IBRAHIM BAKR (Mfr.)
SAMPLING METHOD : NOT GIVEN
SAMPLING REPORT NO. : -
TEST METHOD : DIN 8078 : 2008-09
TEST METHOD VARIATION : NIL
REMARKS : THIS REPORT REPRESENTS THE SUBMITTED SAMPLE ONLY.

AUTHORIZED BY
HEAD OF UNIT

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CERTIFICATE OF REGISTRATION

This is to certify that the Management System of

Eppinco Plastic Pipes Industry LLC

P.O. Box: 86105, Ras Al Khaimah, United Arab Emirates.

has been assessed and registered by Gabriel Registrar as conforming to the requirements of :

ISO 9001:2015 Quality Management System

The Quality Management System is applicable to :

Manufacturing & Sales of Pipes and Fittings.

1st Surveillance due before : 13-June-2019

2nd Surveillance due before : 13-June-2020

This certificate remains valid while the holder maintains the management system in accordance with the standards above, which will be periodically audited as per the schedule mentioned above for its Validity.

**Accredited by United Accreditation Foundation [UAF]
3510, Colmar, Norfolk 23509, VA, United States of America [USA]**



Lack of fulfillment as set out in the certification agreement may render this certificate invalid. In the issuance of this certificate, Gabriel Registrar assumes no Liability to any party other than to the client, and then only in accordance with the agreed upon certification agreement.

This certificate remains the property of Gabriel Registrar Certificate Issuing Services LLC and must be returned on request. Validity of this certificate may be confirmed at www.gabrielregistrar.com, directly through QR code by using any device with correct information or email to admin@gabrielregistrar.com



GABRIEL REGISTRAR

CERTIFICATE NUMBER
GR18-300608

INITIAL CERTIFICATION DATE
14-June-2018

CERTIFICATE VALID TILL
13-June-2021



[Full Member of IAF]

For the issuing office

GABRIEL REGISTRAR

P.O. Box: 55093, Abu Dhabi,
United Arab Emirates.

Authorized Representative



www.gabrielregistrar.com

MEP SUPPLIER REGISTRATION CERTIFICATE



Issue Date: 10 December 2020

We hereby register the Supplier: Abusafieh Trading LLC

ADCE Vendor Code: v0001873

Please refer **Schedule A** for Materials

Remarks:



Majdi Yousef



Mohammad Abedelatif Aboumayye

Registration Review Committee Signature 1

Registration Review Committee Signature 2



Disclaimer:

- 1) It is the role of the Consultant to select materials from the registered list.
- 2) The specifications of the selected materials are the sole responsibility of the Consultant.
- 3) Nothing in this Registration Certificate absolves the Supplier or the Consultant from any liability towards any party. ADCE does not make any warranty or representation as to the quality, fitness for purpose, or suitability of the Materials and shall not be liable to any party for any loss including but not limited to the financial condition of the Supplier, the performance and observance by the Supplier or the Consultant of any contract or arrangement, or the accuracy of any statements made by the Supplier or the Consultant. Any representations or warranties implied by law are excluded. The issuing of this certificate does not confer any authority upon the Supplier or the Consultant.
- 4) This certificate is valid for one year from issue date.

MEP SUPPLIER REGISTRATION CERTIFICATE



ADCE Vendor Code:

v0001873

Schedule A



PP-R Pipes & Fittings - Novatherm - Germany
XLPE/PEX Pipes & Fittings - Emipex - UAE
XLPE/PEX Pipes & Fittings - Fripex-san - Germany
Solar system - Bosch - Germany
Solar system - Renergy - Greece
PP-R Pipes & Fittings - Emipex - UAE
PPR pipes & fittings - Emipex - UAE



مختبر علوم التربة لفحص المواد GEOSCIENCE TESTING LABORATORY

ANALYSIS REPORT ON NON – TOXICITY (PPR PIPE)

Lab References:

Report No. : R1DX18-176554 Report Date: 05/08/2018
Request No. : Q1DX18-123582 Sample No. : S1DX18-123582
Testing Date : 29/07/2018 – 04/08/2018
Test Method : Appearance of Water: BS 6920 – 2.2.3 2000
Growth of Aquatic Microorganism: BS 6920 – 2.2.4 2000
Extraction of Metals: BS 6920 – 2.2.6 2000
Testing of Metals: APHA 3120 B (ICP-OES)
Tested By : SWE / SKM / JV / AME
Sample Description: PPR PIPE

Client References:

Client Name : EPPINCO PLASTIC PIPES INDUSTRY LLC
Project No. : NOT GIVEN
Project Name : INTERNAL QUALITY CHECKING
Address : DUBAI, UAE
Consultant : NO SPECIFIC CONTRACTOR
Contractor : NO SPECIFIC CONTRACTOR

1.0 Appearance of Water :

The sample PPR Pipe was immersed in the chlorine – free test water maintained at 25 °C & 80 °C for 24 hrs.

After 24 hrs the extracted water portion was tested together with the Blank water for Colour and Turbidity, using spectrophotometric method.

PARAMETER	Temperature 25 °C		Temperature 80 °C		ALLOWABLE LIMITS [#]
	Blank Water	Extracted Water	Blank Water	Extracted Water	
Turbidity (FAU)	0	0	0	0	0.5
Colour (Units)	0	0	0	0	5



مختبر علوم التربة لفحص المواد GEOSCIENCE TESTING LABORATORY

Report No. : R1DX18-176554

Report Date : 05/08/2018

Request No. : Q1DX18-123582

Sample No. : S1DX18-123582

Remarks: Results obtained for extracted water and test water are below the allowable limits.

Therefore, the submitted PPR Pipe sample is suitable for use in contact with water intended for human consumption, with regard to the above tested parameters.

2.0 Growth of Aquatic Microorganism Test

The sample PPR Pipe was immersed in the chlorine-free test water maintained at 25 °C & 80 °C for 24 hrs.

After 24 hrs the extracted water portion was tested together with the Blank water for Dissolved Oxygen.

PARAMETER	Temperature 25 °C		Temperature 80 °C		ALLOWABLE LIMITS [#]
	Blank Water	Extracted Water	Blank Water	Extracted Water	
Dissolved Oxygen (mg/L)	7.4	7.0	6.9	6.7	2.39

Remarks: Dissolved Oxygen difference between extracted water and Blank water result is below the allowable limits. Hence, the submitted sample is regarded as not being capable of supporting appreciable microbial growth when in contact with water intended for human consumption.

3.0 Extraction of Metals

The sample PPR Pipe was immersed in the chlorine-free test water maintained at 25 °C & 80 °C for 24 hrs.

After 24 hrs the extracted water portion was tested for presence of metals using Inductively Coupled Plasma (ICP-OES). The water extract was acidified prior to testing using concentration HNO₃ (5 ml HNO₃ / 1000 ml extract).

Form : MD/G 01
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Issue : 01 / 14.10.2008

Rev. : 0/-



For GEOSCIENCE TESTING LABORATORY



مختبر علوم التربة لفحص المواد

GEOSCIENCE TESTING LABORATORY

Report No. : R1DX18-176554

Report Date : 05/08/2018

Request No. : Q1DX18-123582

Sample No. : S1DX18-123582

Table 1. Metal Analysis Results

PARAMETERS	ALLOWABLE LIMITS [#] (mg/L)	RESULTS (mg/L)	
		Temperature 25 °C	Temperature 80 °C
1. Aluminum	0.2	< 0.005	< 0.005
2. Antimony	0.005	Not Detected	Not Detected
3. Arsenic	0.01	< 0.004	< 0.004
4. Barium	1.0	Not Detected	Not Detected
5. Cadmium	0.005	< 0.002	< 0.002
6. Chromium	0.05	< 0.007	< 0.007
7. Iron	0.2	< 0.009	< 0.009
8. Lead	0.025	< 0.008	< 0.008
9. Manganese	0.05	< 0.008	< 0.008
10. Mercury	0.001	< 0.001	< 0.001
11. Nickel	0.02	< 0.006	< 0.006
12. Selenium	0.01	< 0.006	< 0.006

[#] Only Applicable for 25 °C

Remarks: When tested in accordance with BS 6920 – 2.6, the metal content is below the allowable limits. Hence, the soluble is suitable for use in contact with water intended for human consumption with regard to the above tested parameters.

- Results relates only to the samples tested.
- Test reports shall not be reproduced (except in full) without the written approval of the laboratory.

Form : MD/G 01
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Issue : 01 / 14.10.2008



Rosana M. Oquendo
Unit Head (Chemical)
Dubai

For GEOSCIENCE TESTING LABORATORY



مختبر علوم التربة لفحص المواد GEOSCIENCE TESTING LABORATORY

ANALYSIS REPORT ON NON – TOXICITY (PPR FITTINGS)

Lab References:

Report No. : R1DX18-176530 Report Date: 05/08/2018
Request No. : Q1DX18-123558 Sample No. : S1DX18-123558
Testing Date : 29/07/2018 – 04/08/2018
Test Method : Appearance of Water: BS 6920 – 2.2.3 2000
Growth of Aquatic Microorganism: BS 6920 – 2.2.4 2000
Extraction of Metals: BS 6920 – 2.2.6 2000
Testing of Metals: APHA 3120 B (ICP-OES)
Tested By : SWE / SKM / JV / AME
Sample Description: PPR FITTINGS (HEXA FEMALE ADAPTOR)

Client References:

Client Name : EPPINCO PLASTIC PIPES INDUSTRY LLC
Project No. : NOT GIVEN
Project Name : INTERNAL QUALITY CHECKING
Address : DUBAI, UAE
Consultant : NO SPECIFIC CONTRACTOR
Contractor : NO SPECIFIC CONTRACTOR

1.0 Appearance of Water :

The sample PPR Fittings was immersed in the chlorine – free test water maintained at 25 °C & 80 °C for 24 hrs.

After 24 hrs the extracted water portion was tested together with the Blank water for Colour and Turbidity, using spectrophotometric method.

PARAMETER	Temperature 25 °C		Temperature 80 °C		ALLOWABLE LIMITS [#]
	Blank Water	Extracted Water	Blank Water	Extracted Water	
Turbidity (FAU)	0	0	0	0	0.5
Colour (Units)	0	1	0	1	5

Form: MD/G 01
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Issue : 01 / 14.10.2008

Rev. : 0/-





مختبر علوم التربة لفحص المواد GEOSCIENCE TESTING LABORATORY

Report No. : R1DX18-176530

Report Date : 05/08/2018

Request No. : Q1DX18-123558

Sample No. : S1DX18-123558

Remarks: Results obtained for extracted water and test water are below the allowable limits.

Therefore, the submitted PPR Fittings sample is suitable for use in contact with water intended for human consumption, with regard to the above tested parameters.

2.0 Growth of Aquatic Microorganism Test

The sample PPR Fittings was immersed in the chlorine-free test water maintained at 25 °C & 80 °C for 24 hrs.

After 24 hrs the extracted water portion was tested together with the Blank water for Dissolved Oxygen.

PARAMETER	Temperature 25 °C		Temperature 80 °C		ALLOWABLE LIMITS [#]
	Blank Water	Extracted Water	Blank Water	Extracted Water	
Dissolved Oxygen (mg/L)	7.4	7.1	6.9	6.5	2.39

Remarks: Dissolved Oxygen difference between extracted water and Blank water result is below the allowable limits. Hence, the submitted sample is regarded as not being capable of supporting appreciable microbial growth when in contact with water intended for human consumption.

3.0 Extraction of Metals

The sample PPR Fittings was immersed in the chlorine-free test water maintained at 25 °C & 80 °C for 24 hrs.

After 24 hrs the extracted water portion was tested for presence of metals using Inductively Coupled Plasma (ICP-OES). The water extract was acidified prior to testing using concentration HNO₃ (5 ml HNO₃ / 1000 ml extract).





مختبر علوم التربة لفحص المواد

GEOSCIENCE TESTING LABORATORY

Report No. : R1DX18-176530

Report Date : 05/08/2018

Request No. : Q1DX18-123558

Sample No. : S1DX18-123558

Table 1. Metal Analysis Results

PARAMETERS	RESULTS (mg/L)	
	Temperature 25 °C	Temperature 80 °C
1. Aluminum	< 0.005	< 0.005
2. Antimony	Not Detected	Not Detected
3. Arsenic	< 0.004	< 0.004
4. Barium	Not Detected	Not Detected
5. Cadmium	< 0.002	< 0.002
6. Chromium	< 0.007	< 0.007
7. Iron	< 0.009	< 0.009
8. Lead	< 0.008	0.052
9. Manganese	< 0.008	< 0.008
10. Mercury	< 0.001	< 0.001
11. Nickel	0.049	0.102
12. Selenium	< 0.006	< 0.006

* Only Applicable for 25 °C

Test Method Variation: The sample tested is metallic PPR Fittings.

- Results relates only to the samples tested.
- Test reports shall not be reproduced (except in full) without the written approval of the laboratory.

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Rosana M. Oquendo
Unit Head (Chemical)
Dubai

For GEOSCIENCE TESTING LABORATORY



QF-07 Rev-3

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Certificate No.: 2018101501 Date: 16/10/2018 Job No.: 9452
 Customer: Eppinco Plastic Pipes Industry LLC
 Address: RAK, United Arab Emirates

Equipment Description: Sample of EMIPIPE PPR Pipes with Fittings
 Manufacturer: U.A.E. Connection: 3/4"
 Serial Number: 18-9452-02 Size: 25 x 4.2 mm
 Test Pressure: 25.0 Bar Test Medium: Water

Tested On: 16/10/2018

Environmental Conditions:
 Temperature: 22°C +/- 2°C Humidity: 50% +/- 10%

Calibration Technical Services hereby certifies that the above described instrument was tested in accordance with all published specification at the time of calibration specified below. Using, standards whose accuracies are traceable to international standards within the limitations of the Institute's calibrations services, or have been derived from accepted values or physical constants, or have derived by ratio of self calibration techniques. All tests equipment used by Caltech is traceable to National/International standards such as UKAS (UK), NPL, NKO, EAL, SI, NVLAP, and NIST (USA). Copies of traceable certificate are available upon request.

The uncertainty limits quoted refer to the measured values only, with no account being taken of the instruments ability to maintain its calibration.

Master Equipment:	Procedure:			WI-43
Description	Serial No.	Model	Certificate No.	Traceable Standard
Digital Press. Calibrator	53072	P 100	2018101501	UKAS

TEST REPORT:

Calibration Technical Services hereby certifies that the above described pipe has been tested in accordance with DIN 8078: 1996-04 standards. The pipe was observed under pressure for 24 hours and found no cracks or leakage during and after the test. It is passed to use within the range of 25.0 Bar.

Note: This document may not be reproduced except in full, without the written approval of Calibration Technical Services

Tested By (6):



Checked By:





Certificate of Testing

CCP

Certificate No.:	2013066921	Date:	24/06/2013	Job No.:	14655
Customer:	Abusafieh Trading LLC				
Address:	Dubai, United Arab Emirates				

Equipment Description:	Sample of Emipipe PPR with two fittings				
Manufacturer:	EMPIPE	Test Medium:	Water		
Serial Number:	13-14655-01	Test Pressure :	25.0 Bar		
Size:	25 x 4.2 mm	Open Gate Valve Sizes:	20,25,32mm		

Test Date:	23/06/2013
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Environmental Conditions:			
Temperature:	22 °C +/- 2 °C	Humidity:	50 % +/- 10 %

Calibration Technical Services hereby certifies that the above described instrument was tested in accordance with all published specification at the time of calibration specified below. Using, standards whose accuracies are traceable to international standards within the limitations of the Institute's calibrations services, or have been derived from accepted values or physical constants, or have derived by ratio of self calibration techniques. All tests equipment used by Caltech is traceable to National/International standards such as UKAS (UK), NPL, NKO, EAL, SI, NVLAP, and NIST (USA). Copies of traceable certificate are available upon request.

The uncertainty limits quoted refer to the measured values only, with no account being taken of the instruments ability to maintain its calibration.

Master Equipment				Procedure	WI-43
Description	Serial No.	Model	Certificate No.	Traceable Standard	
Digital Pressure Gauge	544364	10KPSIXP2i	0712/14947/1273	UKAS	

TEST RESULT

Calibration Technical Services hereby certifies that the above described Sample of Emipipe PPR with two fittings has been tested and found no leakage, as per manufacturer's specifications and within the range of 25.0 Bar.

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Tested By



Checked By

