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



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

29th March 2019

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

WATER REGULATIONS ADVISORY SCHEME LTD. (WRAS) <u>MATERIAL APPROVAL</u>

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

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



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

29th January 2019

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

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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 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

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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Yours faithfully

Jason Furnival Approvals & Enquiries Manager Water Regulations Advisory Scheme

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



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

7th February 2019

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

WATER REGULATIONS ADVISORY SCHEME LTD. (WRAS) <u>MATERIAL APPROVAL</u>

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".

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

Yours faithfully

Jason Furnival Approvals & Enquiries Manager Water Regulations Advisory Scheme

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

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	Dub	ai Centra	al Laboratory			
Eng	neering Materia	als Labora	atory Section - St	ructural I	Jnit	
Dig			EPORT			
	DIM		OF PPR PIPES			
			OT TIKIH L5			
	095130		DATE	:	08/08/2016	
The second	-27072016-0274					
	063656		SAMI	PLE NO. :	2016089712	
PROJECT NO. : PS16						
	NCO PLASTIC PIPES		' LLC			
CONSULTANT : NO SPECIFIC CONSULTANT						
	SPECIFIC CONTRAC					
	HAIL INDUSTRIAL		ILC DAV			
	NCO PLASTIC PIPES		LLC - RAK			
SAMPLE DESCRIPTION: POL	Y PROPYLENE PIPE	(PP)				
SAMPLE TYPE : NG SUPPORT / FACING : NIL						
NOM. THICKNESS (mm): NG						
NOM. THICKNESS (mm): NG NOM. DENSITY (kg/m ³) : NG						
Date of Sampling :	27/07/2016	Time :	10:00 Lot No		270716	
Date of Receiving Sample :	31/07/2016		12:00 Lot Si		NG	
Size of Sample :	6 Nos	Area No. :			NG	
DATE SPECIMEN RECEIVED		T		31/07/2016		
and the second state of the se			(07/08/2016		
TEST TEMPERATURE (°C)				23 ± 2°C		_
SPECIMEN NOMINAL LENGTH	and the second se			NG		
SPECIMEN NOMINAL THICKN	ESS (mm)			NG		
SPECIMEN NOMINAL DIAMET	ER (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	4.5		4.5		15	
WALL THICKNESS (mm)	4.5		4.5		4.5	
MAXIMUM	4.6	16 - Sector 2019	4.6		4.6	
WALL THICKNESS (mm)	4.0		4.0		4.0	
SAMPLED BY	: IBRAHIM BAKE	R (Mfr.)	TES	STED BY :	NAZRUL ISLAM	
SAMPLES BROUGHT IN BY					02/08/2016	
SAMIFLES DRUUGHT IN DI	: IBRAHIM BAKE	(Mfr.)				
	: IBRAHIM BAKR : NOT GIVEN	(Mfr.)	IGET OTA			
SAMPLING METHOD	: NOT GIVEN	(Mfr.)	1021 0121			
SAMPLING METHOD SAMPLING REPORT NO.	: NOT GIVEN : -					
SAMPLING METHOD SAMPLING REPORT NO. TEST METHOD	: NOT GIVEN : - : DIN- 8078 :200					
SAMPLING METHOD SAMPLING REPORT NO.	: NOT GIVEN : - : DIN- 8078 :2007 : NIL	8-09	ITS THE SUBMITTED			

AUTHORIZED BY HEAD OF UNIT



Rev. No. : 5

Page: 1 of 1

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

Doc Ref. : F-EM-2142-3 Issue Date : 31/07/2013

> P.O.BOX 67 DUBAI, TEL : 00971-4-3369900, FAX : 00971-4-3366399 E-Mail : labs@dm.gov.ae - Website : http://www.dm.gov.ae/



GOVERNMENT OF DUBA	1					DUBAI MUNICIPALITY	APALL
		D	ubai Centra	al Labor	atory		
	Enginee	ring Mate	erials Labora	atory Sec	tion – Structur	al Unit	
	U	Ũ		REPORT			
		LONGITI			OF PPR PIPES		
REPORT NO. :	201609512				DATE	: 08/08/2016	
	DCL-27072				DATE	. 00/00/2010	
	201606365				SAMPLE NO	O. : 2016089712	
	PS16-0163	•			SAME DE IN	0 2010089712	
				LLC			
		FIC CONSUL					
		FIC CONTRA					
LOCATION :	AL GHAIL	INDUSTRIA	L AREA-RAK				
SOURCE :	EPPINCO	PLASTIC PIF	PES INDUSTRY	LLC - RAK			
SAMPLE DESCRIPTION:	POLY PRO	PYLENE PI	PE (PP)				
SAMPLE TYPE :	NG						
	NIL						
NOM. THICKNESS (mm):							
NOM. DENSITY (kg/m ³) :	the second s						
Date of Sampling :	2'	7/07/2016	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	
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DATE HEATED			4		0	7/08/2016	
PRECONDITIONING TEM	P. & DURA	TION		23 ± 2°C & 24Hr.			
TEMPERATURE EXPOSU	RE EQUIP	MENT		AIR OVEN			
SPECIMEN NOMINAL LEI	IGTH (mm)		200.00 NG			
SPECIMEN NOMINAL THI	CKNESS (mm)					
SPECIMEN NOMINAL DIA	METER (n	nm)				25.00	
TEST TEMPERATURE (°C)			135			
DURATION (H)						1	
SPECIMEN NO.			1		2	3	
APPEARANCE		N	ORMAL		NORMAL	NORMAL	
% OF LONGITUDINAL RE	VERSION		0.11		0.14	0.14	1.15
CHANGE OF LENGTH (P NEGATIVE)	OSITIVE /	NE	GATIVE		NEGATIVE	NEGATIVI	E
SAMPLED BY	:	IBRAHIM F	BAKR (Mfr.)		TESTED	BY : NAZRUL ISLAM	
SAMPLES BROUGHT IN E	ΒY :		BAKR (Mfr.)		TEST START DAT		
SAMPLING METHOD	:	NOT GIVE					
SAMPLING REPORT NO.	:	-					
		DIN 8078:	2008-09& BSE	N ISO 2505	-05		
TEST METHOD TEST METHOD VARIATIO	: N :	DIN 8078: NIL	2008-09& BSE	N ISO 2505	-05		

AUTHORIZED BY HEAD OF UNIT



Rev. No. : 6

Page: 1 of 1

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

Doc Ref. : F-EM-2141-3 Issue Date : 31/07/2013





Dubai Central Laboratory

Engineering Materials Laboratory Section - Structural Unit

TEST REPORT

SURFACE FINISH OF PPR PIPES

WEB REQUEST NO. : DCL-27072016-0274 REQUEST NO. : 2016083656 SAMPLE NO. : 2016089712 REQUEST NO. : 2016083656 SAMPLE NO. : 2016089712 PROJECT NAME : EPPINCO PLASTIC PIPES INDUSTRY LLC CONSULTANT : NO SPECIFIC CONSULTANT CONSULTANT : NO SUPPORT / FACING : NIL NOM. THICKNESS (mm) : NO SPECIMEN RECEIVED 31/07/2016 Time : 12:00 Lot Size : NG SPECIMEN RECEIVED 31/07/2016 TEST START DATE 02/08/2016 SPECIMEN NOMINAL LENGTH (mm) NG SPECIMEN NOMINAL DIAMETER (mm) NG SPECIMEN NOMINAL DIAMETER (mm) 25.00 SPECIMEN NOMINAL DIAMETER (mm) 25.00 SPECIMEN NOMINAL DIAMETER (mm) NG SPECIMEN NOMINAL DIAMETER (mm) NG						
REQUEST NO. : 2016063536 SAMPLE NO. : 2016089712 PROJECT NO. : P516-0163 PROJECT NAME : EPPINCO PLASTIC PIPES INDUSTRY LLC CONSULTANT : NO SPECIFIC CONSULTANT CONTRACTOR : NO SPECIFIC CONSULTANT CONTRACTOR : NO SPECIFIC PIPES INDUSTRY LLC - RAK SAMPLE TYPE : NO SUPPORT / FACING : NIL NOM. THICKNESS (mm) : NG Date of Sample : 0 Nos Arrea No. : - Sender No. : NG Date of Sample : 0 Nos Arrea No. : - Sender No. : NG DATE SPECIMEN NOMINAL LENGTH (mm) NG SPECIMEN NOMINAL DIAMETER (mm) 25.00 SPECIMEN NOMINAL DIAMETER (mm) 25.00 SPECIMEN NOMINAL DIAMETER (mm) NG SPECIMEN NOMINAL DIAMETER (mm) 25.00 SPECIMEN NOMINAL DIAMETER (mm) NG SPECIMEN NOMINAL DIAMETER (mm) 25.00 SPECIMEN NOMINAL DIAMETER (mm) NG SPECIMEN NOMINAL DIAMETER (mm) NG SPECIMEN NOMINAL DIAMETER (mm) 25.00 SPECIMEN NOMINAL DIAMETER (mm) NG SPECIMEN NOMINAL DIAMETER (mm) NIL NIL NIL NIL NIL NIL NIL NIL					DATE	: 08/08/2016
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PROJECT NAME : EPPINCO PLASTIC PIPES INDUSTRY LLC CONSULTANT : NO SPECIFIC CONSULTANT CONSULTANT : NO SPECIFIC CONTRACTOR LOCATION : AL GHAIL INDUSTRIAL AREA-RAK SOURCE : EPPINCO PLASTIC PIPES INDUSTRY LLC - RAK SAMPLE TYPE : NG SUPPORT / FACING : NIL NOM. THICKNESS (mm) : NG Date of Sampling : 27/07/2016 Time : 10:00 Lot No. : 27/0716 Date of Sampling : 27/07/2016 Time : 12:00 Lot Size : NG Size of Sampling : 27/07/2016 Time : 12:00 Lot Size : NG Date of Sampling : 0 NO Date of Sampling : 0 NO Date of Sampling : 0 NO DATE SPECIMEN RECEIVED 31/07/2016 Size of Sample : 0 NOS Area No. : - Sender No. : NG DATE SPECIMEN RECEIVED 31/07/2016 SPECIMEN NOMINAL LENGTH (mm) NG SPECIMEN NOMINAL LENGTH (mm) NG SPECIMEN NOMINAL DIAMETER (mm) 25:00 SPECIMEN NOMINAL DIAMETER (mm) 26:00 SPECIMEN NOMINAL DIAMETER (mm) NG SPECIMEN NOMINAL DIAMETER (mm) NG NG SPECIMEN NOMINAL DIAMETER (mm) NG NG NG SPECIMEN NOMINAL DIAMETER (mm) NG NG NG NG NG NG NG NG NG NG NG NG NG N					SAMPLE NO.	: 2016089712
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LOCATION : AL GHALL INDUSTRUAL AREA-RAK SOURCE : EPPINCO PLASTIC PIPES INDUSTRY LLC - RAK AMPLE DESCRIPTION : POLY PROPYLENE PIPE (PP) SAMPLE TYPE : NG SAMPLE TYPE : NG SUPPORT / FACING : NIL VOM. THICKNESS (mm) : NG VOM. DENSTY (kg/m²) : NG Date of Sample : 31/07/2016 Time : 12:00 Lot No. : 270716 Date of Receiving Sample : 31/07/2016 Time : 12:00 Lot Size : NG Size of Sample : 31/07/2016 Time : 12:00 Lot Size : NG Size of Sample : 31/07/2016 Time : 12:00 Lot Size : NG Date Specimen RECEIVED 31/07/2016 TEST START DATE 02/09/2016 SPECIMEN NOMINAL LENGTH (mm) NG SPECIMEN NOMINAL LENGTH (mm) NG SPECIMEN NOMINAL THICKNESS (mm) NG SPECIMEN NOMINAL THICKNESS (mm) NG SPECIMEN NOMINAL DIAMETER (mm) 25:00 SPECIMEN NOMINAL DIAMETER (mm) 25:00 SPECIMEN NOMINAL DIAMETER (mm) 25:00 SPECIMEN NOMINAL DIAMETER (mm) SUCON SPECIMEN NOMINAL DIAMETER (mm) SUCON SPECIMEN NOMINAL SIZE NIL NIL NIL NIL NIL NIL INFORMITY IN COLOUR UNIFORM UNIFORM UNIFORM UNIFORM UNIFORM UNIFORM UNIFORM UNIFORM UNIFORM UNIFORM UNIFORM UNIFORM UNIFORM NIL		PECIFIC CONSULTA	NT			
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: THIS REPORT REPRESENTS THE SUBMITTED SAMPLE ONLY.

LB 01

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

AUTHORIZED BY

Doc Ref. : F-EM-2140-3 Issue Date : 31/07/2013

REMARKS

P.O.BOX 67 DUBAI, TEL : 00971-4-3369900, FAX : 00971-4-3366399 E-Mail : labs@dm.gov.ae - Website : http://www.dm.gov.ae/

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CERTIFICATE

3

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.



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

1^e Surveillance due before : 13-June-2019 2^{es} 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 fulfilment 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



www.gabrielregistrar.com

Scanned by CamScanner

MEP SUPPLIER REGISTRATION CERTIFICATE

Issue Date:

We hereby register the Supplier:

ADCE Vendor Code:

Please refer Schedule A for Materials

Remarks:

Majdi Yousef

Registration Review Committee Signature 1

Mohammad Abedelatif Aboumayye

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.

10 December 2020

v0001873

Abusafieh Trading LLC

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 - Emipipe - UAE PPR pipes & fittings - Emipipe - UAE



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مختبر عملوم التربية لفحص المواد GEOSCIENCE TESTING LABORATORY

ANALYSIS REPORT ON NON - TOXICITY (PPR PIPE)

Lab Reference	25:	
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 Descr	iption: PPR PIPE	
Client Refere	nces:	
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 $^{\circ}$ C & 80 $^{\circ}$ 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		ature 25 °C	Temperature 80 °C		ALLOWABLE
	Blank Water	Extracted Water	Blank Water	Extracted Water	LIMITS [#]
Turbidity (FAU)	0	0	0	0	0.5
Colour (Units)	0	0	0	0	5

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For GEOSCIENCE TESTING LABORATORY



مختبر عساسوم الستربسة لفحص المسواد 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		rature 25 °C	Temperature 80 °C		ALLOWABLE	
	Blank Water	Extracted Water	Blank Water	Extracted Water	LIMITS [#]	
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 $^{\circ}$ C & 80 $^{\circ}$ 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 HNO_3 (5 ml HNO_3 / 1000 ml extract).

CETESTING LABOR Plot No.531-519 Dubai Industrial City Tel.: 04-431 4690 Fax: 04-431 4570 ★ Plot No.531-519 Dubai Industrial City Tel.: 04-431 4570 ★

For GEOSCIENCE TESTING LABORATORY

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Rev. : 0/ -



مخـــتــبر عــلــوم الــتربــة لفحص المــواد 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

	ALLOWABLE	RESULTS (mg/L)		
PARAMETERS	LIMITS [#] (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

 Results relates only to the samples tested.
 Test reports shall not be reproduced (except in full) with out the written approval of the laboratory. Plot No.5315190/ Dubai Industrial City Rosana M. Oquendo Issue : 01 / 14.10.2008 Form : MD/G 01 Unit Head (Chemical) Page 3 of 3 Tel.: 04-431 4690 Dubai Fax: 04-431 4570 For GEOSCIENCE TESTING LABORATORY

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.



مختبر عطوم التربة لفحص المواد **GEOSCIENCE TESTING LABORATORY**

ANALYSIS REPORT ON NON - TOXICITY (PPR FITTINGS)

Lab	Rei	fere	ences:	

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 Descr	iption: PPR FITTINGS (HEXA FEMALE ADAPTOR)	
Client Referen	nces:	
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		Temper	ALLOWABLE	
	Blank Water	Extracted Water	Blank Water	Extracted Water	LIMITS [#]
Turbidity (FAU)	0	0	0	0	0.5
Colour (Units)	0	1	0	1	5

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Dubai Industrial City For GEOSCIENCE T TING LABORATORY

CETESTING LABOR

Plot No.531-519



مختبر عساسوم الستربسة لفحص المسواد 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	Tempe	Temperature 25 °C		Temperature 80 °C	
	Blank Water	Extracted Water	Blank Water	Extracted Water	LIMITS*
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 HNO_3 (5 ml HNO_3 / 1000 ml extract).



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For GEOSCIENCE TESTING LABORATORY



مختبر عملوم المتربة 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

DADABACTEDO	RESULTS (mg/L)			
PARAMETERS	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 Test reports shall not be r 	e samples tested. reproduced (except in full) with out the written appro-	val of the laboratory.
Form: MD/G 01 Page 3 of 3	Issue : 01 / 14.10.2008 Tel.: 04-431 4690 Fax: 04-431 4570	0/1 Unit Head (Chemical)



PROCESS CONTROL INSTRUMENTATION, FLOW METERS, VALVES & CALIBRATION SERVICES

and the second				QF-07 Rev-3	Page 1 of 1
Certificate No.:	2018101501	Date:	16/10/2018	Job No.: 9	9452
Customer:	Eppinco Plastic F	Pipes Industr	ry LLC		
Address:	RAK, United Ara	ab Emirates			
Equipment Descr	intion: Sample o	FEMIPIPE	PPR Pipes with	Fittings	
Manufacturer:	U.A.E.		Connection	-	
Serial Number:	18-9452-02		Size:	25 x 4.2 n	ım
Test Pressure:	25.0 Bar		Test Mediu	um: Water	
Tested On:	16/10/2018				
Environmental C	onditions:				
Temperature:	22°C +/-2	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 St	tandard
Digital Press. Calibrator	53072	P 100	2018101501	UKA	S

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):

INSPECTOR QA CAÉTÉCH SERVICES Checked By:

Tel. : +971 - 6 - 5344099 Fax : +971 - 6 - 5344660 P.O. Box : 38384, Sharjah United Arab Emirates E-mail: caltech@emirates.net.ae Website : www.caltechuae.com



CALIBRATION TECHNICAL SERVICES



PROCESS CONTROL INSTRUMENTATION, FLOW METERS, VALVES & CALIBRATION SERVICES

Certificate of Testing CCP **Certificate No.:** 2013066921 Date: 24/06/2013 Job No.: 14655 Abusafieh Trading LLC **Customer:** Address: Dubai, United Arab Emirates Equipment Description: Sample of Emipipe PPR with two fittings Manufacturer: EMIPIPE **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 **Environmental Conditions:** 22 °C +/- 2 °C 50 % +/- 10 % **Temperature: Humidity:**

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 St	andard
Digital Pressure Gauge	544364	10KPSIXP2i	0712/14947/1273	UKAS	5

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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