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TEST REPORT

Customer: C0427425

World plastics for construction industries PO Box 53 Amman, 11512 Jordan

Result	Limited testing was undertaken on this product in accordance with the WRAS Material Guidance document, Table 1, Clause o (pipe manufactured from approved material). Related approval number 1612549. This product has satisfied the criteria set out in BS 6920: Part 1: 2014 "Specification" and thus is suitable for use with cold water but not hot water.
Customer Name	World plastics for construction industries
Product	Aquapipe HDPE Pipes (PE-100)
Test Undertaken	BS 6920: 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
Job Number	J-00332313
PAMS Number	190697

Thank you for having your product tested by NSF Wales Ltd.

Please contact your Account Manager if you have any questions or concerns pertaining to this report.

Report Date 09-JUL-2019

Report Authorisation



Matthew Rees - Materials Laboratory Supervisor



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Result Summary Section

Test	Result
Odour and flavour of water BS 6920: Part 1: 2014, Clause 4 - 23°C	Pass
Extraction of Metals BS 6920: Part 1: 2014, Clause 8 - 23°C	Pass



Sample Details

Date of Receipt of Application Form	26/03/19
Date of Receipt of Product for Test	08/04/19
Product	Aquapipe HDPE Pipes (PE-100)
Nature of Material	HDPE
Date Test Sample Manufactured	06/03/19
Batch Number	Lot:B
Receipt Conditions	Good Condition
Receipt Packaging	Clear plastic
Product Manufacturer	World Plastics For Construction Industries
Product Manufacturing Site	Jordan
Tradename and Reference of Product	Aquapipe
Method of Manufacture	Extrusion
Typical Use of the Product	Conveyance of potable water
Material Manufacturer	Borouge Pte Ltd
Tradename and Reference of Material	HE3490-LS
Material Manufacturing Site	United Arab Emirates
Nature of Product	Pipe
Sampling Procedure	Random
Address of Product Manufacturer	P.O Box 53, Industrial zone, AlQastel, Amman 11512, Jordan



Sample Preparation

Description/Appearance of the product	Black, opaque, rigid pipe		
Length	36 mm		
Max. length	500 mm		
Inner diameter	51 mm		
Outer diameter	63 mm		
Surface area of one article	181149.0 mm2		
Number of articles constituting a sample	0.08		
Surface area for test	15037 mm2		
Calibration mark of test container	1 L		
Storage Conditions	As in BS 6920: Part 2: Section 2.1: Clause 5.2		



Job Attachments:

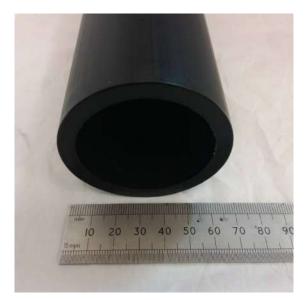


Photo 1



Odour and flavour of water BS 6920: Part 1: 2014, Clause 4 - 23°C

Methodology: BS 6920: Part 2: Section 2.2 and in-house method PROC/MAT 004 and 006.

Date Leaching Test Started: 5-JUN-2019

First Extract - Chlorinated Test Water

Panellist	Odour Descriptor	Flavour Descriptor	Flavour Dilution Number
1	Eggs	None	1
2	None	None	1
3	None	None	1

First Extract - Chlorine Free Test Water

Panellist	Odour Descriptor	Flavour Descriptor	Flavour Dilution Number
1	None	None	1
2	None	None	1
3	None	None	1

On the basis of these results the samples of this product referred to in this report have been found to conform to the requirements of BS 6920: Part 1: 2014, Clause 4.



Extraction of Metals BS 6920: Part 1: 2014, Clause 8 - 23°C

<u>Methodology</u>: BS 6920: Part 2: Section 2.6 and in-house methods PROC/MAT 006 (leachate preparation) and PROC/ING 003 (ICPMS analysis).

Date Leaching Tests Started: 5-JUN-2019

First Extract

Metal (µg/L)	MAC (μg/L)	LOD (µg/L)	Blank (µg/L)	Sample 1 (µg/L)	Sample 2 (µg/L)
Aluminium	200	20	<20	<20	<20
Antimony	5	0.5	<0.5	<0.5	<0.5
Arsenic	10	1	<1	<1	<1
Boron	1000	100	<100	<100	<100
Cadmium	5	0.5	<0.5	<0.5	<0.5
Chromium	50	5	<5	<5	<5
Iron	200	20	<20	<20	<20
Lead	10	1	<1	<1	<1
Manganese	50	5	<5	<5	<5
Mercury	1	0.1	<0.1	<0.1	<0.1
Nickel	20	2	<2	<2	<2
Selenium	10	1	<1	<1	<1

Analytical Method - ICPMS Inductively Coupled Plasma Mass Spectrometry

MAC - Maximum admissible concentration

LOD - Required limit of detection

On the basis of these results the samples of this product referred to in this report have been found to conform to the requirements of BS 6920: Part 1: 2014, Clause 8.

<< lesting Laboratories >>	Flag	ld	Address
All work performed at: – (Unless otherwise specific		NSF_WALES	NSF Wales Ltd. 30 Fern Close

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