

Test Report

REPORT NO. MA5581/S

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PTFE Washer

ACOFLON® 100

CLIENT:

Acoplastic A/S
Løvdalsjev 5
300 Helsingør
Denmark

reported by:



**SAMUEL CLARKE
CUSTOMER CARE
COORDINATOR**

DATE: 22 APRIL 2016

reviewed by:



**GREGORY STRETTON
ACTING SECTION HEAD OF
MATERIALS**

CLIENT'S REFERENCE: RK18156

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation

**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
WRAS TESTS OF EFFECT ON WATER QUALITY (BS 6920: 2014)
AUDIT TESTS; HIGH TEMPERATURE TESTS (BS6920: PART 3: 2014)**

INFORMATION AND GUIDANCE NOTE

WATER REGULATIONS ADVISORY SCHEME

The Scheme wishes to draw to the attention of product manufacturers and users that reports issued by accredited test laboratories do not of themselves constitute approval by the Scheme or the test laboratory. Only a letter from the Scheme, citing a Directory Reference Number, can be regarded as indicating approval.

1. SAMPLES FOR TESTING

General composition of product	PTFE
Trade name and reference of material	Acoflon® 100
Material manufacturer	Heroflon
Submitting organisation	Acoplastic A/S
Component name/ref	PTFE seal
Component manufacturer	Acoplastic A/S
Batch number of product	1507407/PO231586
Date of manufacture of product	9 November 2015
Method of manufacture of sample	compression moulding
Sampling procedure	taken from production
Description of sample	white opaque smooth washer
Surface area of test piece	145731 mm ²
Number of articles constituting a test piece	5
Surface area of one article	2915 mm ²
Dimensions of test piece: length/width/thickness:	59.49mm/44.17mm/1.29mm
Calibration mark of test containers	1 litre
Date of application	21 September 2015
Date of receipt of test samples	12 November 2015
Condition of samples on receipt	satisfactory
Method of packaging	paper

Conditions of storage of the samples between receipt and testing as instructed in BS6920-2.1: 2014: clause 5.2

Proposed use of the product water pumps

2. ODOUR AND FLAVOUR OF WATER

Number of tasters in the taste panel – 3

Extraction temperature – **23°C**

Date test commenced – 12 January 2016

Extract 1

(i) chlorine free test water:

Taster	Odour description	Flavour description	Flavour dilution number
1	nil	nil	<1
2	nil	nil	<1
3	nil	nil	<1

(ii) chlorinated test water:

Taster	Odour description	Flavour description	Flavour dilution number
1	nil	nil	<1
2	malty	nil	<1
3	nil	nil	<1

Comment - thus the samples of this product have been found to comply with the requirements of BS 6920: Part 1: clause 4 when extracted at **23°C**.

Extraction temperature – **85°C**

Date test commenced – 12 January 2016

Extract 1

(i) chlorine free test water:

Taster	Odour description	Flavour description	Flavour dilution number
1	nil	nil	<1
2	nil	nil	<1
3	nil	nil	<1

(ii) chlorinated test water:

Taster	Odour description	Flavour description	Flavour dilution number
1	nil	nil	<1
2	nil	nil	<1
3	nil	nil	<1

Comment - thus the sample of this product has been found to comply with the requirements of BS 6920: Part 1: clause 4 when extracted at **85°C**.

3. THE EXTRACTION OF SUBSTANCES THAT MAY BE OF CONCERN TO PUBLIC HEALTH

Extracts were tested using African Green Monkey Cell Line (VERO ATCC CCL 81)

Extraction temperature – 23°C

Date test commenced – 19 January 2016

Extract	Growth of cell tissue (monolayer)
Reagent blank	healthy, confluent
Zinc sulphate validation solution (cytotoxic)	cell death
Sample	healthy, confluent

Comment - thus the sample of this product has been found to give a non-cytotoxic response and therefore it has been found to comply with the requirements of BS 6920: Part 1: clause 7 when extracted at 23°C.

CONCLUSION

The sample of the product referred to in this report has been tested in accordance with the methods specified in BS 6920: Part 2: 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: Methods of test" (including High Temperature Tests in accordance with BS 6920: Part 3: 2014) and the requirements of the Water Regulations Advisory Scheme 'WRAS Materials Guidance, Version 3 dated 10 March 2015'.

This product has satisfied the criteria set out in BS 6920: Part 1: 2014 "Specification" and thus complies with the requirements of the Water Regulations Advisory Scheme Tests of Effect on Water Quality (BS 6920: 2014): Audit Tests / Odour & Flavour of Water / Cytotoxicity / High Temperature Tests (85°C).

NO OTHER TESTS WERE UNDERTAKEN ON THIS PRODUCT

N.B The results specified in this report relate only to the sample of the product submitted for testing. Any changes in the nature or source of ingredients and the process of manufacture or application could affect the suitability of the product for use in contact with potable water.

Materials and products intended for use by a public water supply company in the preparation or conveyance of water may need to satisfy more comprehensive toxicological requirements as set specified by the Drinking Water Inspectorate. These additional requirements are necessary to ensure legal compliance with Regulation 31 of Water Supply (Water Quality) Regulations 2000.

NOTE FOR WRAS

Audit tests on product covered by our report ref. MA4295/Y dated 9 May 2011 and your letter ref Hannah Lewis dated 18 September 2015 relating to WRAS approval number 1107500

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