

Test Report

TITLE : Testing of Suitability of non-metallic materials and products for use in contact with water intended for human consumption with regard to their effect on the quality of the water

REPORT NO. : J 26058

SAMPLE DESCRIPTION : LS-2017 Synthetic Rubber for 'Tozen' rubber products

SAMPLE SUBMITTED BY : Tozen (H.K.) Limited
Unit 1607, 16/F, Ho Lik Centre
66A Sha Tsui Road
Tsuen Wan, Hong Kong.

MANUFACTURER : Tozen

BRAND : Tozen

BODY MARKING : NIL

COUNTRY OF ORIGIN : China

MODEL : LS-2017

METHOD OF TESTS : BS 6920-1: 2014 Suitability of non-metallic materials and products for use in contact with water intended for human consumption with regard to their effect on the quality of the water Part 1: Specification
BS 6920-2.2.1: 2000 + A3: 2014 Odour and Flavour of Water
BS 6920-2.3: 2000 + A1: 2014 Appearance of Water
BS 6920-2.5: 2000 + A2: 2014 The extraction of substance that may be of concern to public health
BS 6920-2.6: 2000 + A2: 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 extraction of metals
BS 6920-3: 2000 High temperature tests

PERIOD OF TESTS : 05 Jan., 2021 to 09 Mar., 2021

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RESULTS: (apply only to the sample tested)

1. ODOUR AND FLAVOR OF WATER

BS 6920-1: 2014; BS 6920-2.2.1: 2000 + A3: 2014 & BS 6920-3: 2000

Extraction temperature: 35 °C

Surface area of the sample: 10000mm²

Chlorine free test water

Extraction	Odour description	Flavour description
First	No	No

Chlorinated test water

Extraction	Odour description	Flavour description
First	No	No

Remark: Pass

2. APPEARANCE OF WATER

BS 6920-1: 2014; BS 6920-2.3: 2000 + A1: 2014 & BS 6920-3: 2000

Extraction temperature: 35 °C

Surface area of the sample: 15000mm²

Extraction	Color (CU)	Turbidity (FNU)
First	<5	≤0.5
Requirement	≤5	<0.5

Remark: Pass

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

BS 6920-1: 2014; BS 6920-2.5: 2000 + A2: 2014 & BS 6920-3: 2000

Extraction temperature: 35 °C

Surface area of the sample: 15000mm²

	Cell Morphology	Remark
Test sample	Yes	Non-cytotoxic
Blank	Yes	Non-cytotoxic

Remark: Pass

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4. Suitability of non-metallic products or use in contact with water intended for human consumption with regard to their effect on the quality of the water – The extraction of metals
 BS 6920-1: 2014; BS 6920-2.6: 2000 + A2: 2014 & BS 6920-3: 2000

Extraction temperature: 35 °C

First Extraction = Final Extraction

Metal	Max limit (ug/L)	Sample 1 Final extraction (ug/L)	Sample 2 Final extraction (ug/L)
Aluminum	200	9.5	< 5.0
Antimony	5	< 0.50	< 0.50
Arsenic	10	< 1.0	< 1.0
Boron	1000	< 5.0	< 5.0
Cadmium	5	< 0.50	< 0.50
Chromium	50	< 1.0	< 1.0
Iron	200	< 5.0	< 5.0
Lead	10	< 1.0	< 1.0
Manganese	50	< 5.0	< 5.0
Mercury	1	< 0.10	< 0.10
Nickel	20	< 1.0	< 1.0
Selenium	10	< 1.0	< 1.0

Remark: Pass

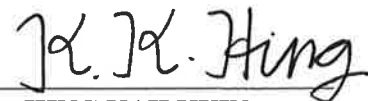
5. SUMMARY OF RESULTS

Compliance with BS 6920-1: 2014 (Hot water) requirement:

Tests	Remark
Odour and flavour of water	Satisfactory
Appearance of water	Satisfactory
The extraction of substances that may concern to public health	Satisfactory
The extraction of metals from water	Satisfactory

Date: 15 Mar., 2021

Authorized signature:



HING KAH KUIN
(Engineer)

Nutek Systems is a testing agency, accepted by the Water Supplies Department, for testing water supply fittings.

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Figure 1 – Sample

-End of Report-