



Test Report

No.: T31720292308SC

Date: JAN 05, 2018

Page 1 of 8

REAPER HOUSEHOLD COMPANY LTD.
UNIT 21, 5/F., WORLD-WIDE INDUSTRIAL CENTRE, 43-47 SHAN MEI STREET, FO TAN, SHATIN, N.T.,
HONG KONG

The following samples were submitted and identified on behalf of the client as:

US FDA TEST FOR AKS STAINLESS STEEL BOTTLES

SGS Case No. : CA317202939439
Style / Item No. : AKS JELLYFISH
Manufacturer / Supplier : JIEYANG XINGCAI INDUSTRIAL CO.,LTD
Country of Origin : CHINA
Country of Destination : HONG KONG
Sample Receiving Date : DEC 22, 2017
Test Performing Date : DEC 22, 2017 – JAN 05, 2018

Test Requested : Please refer to the result summary.

Test Method & Results : Please refer to next page(s).

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Result Summary :

Test Requested	Conclusion
1. US FDA 21 CFR 177.1520 (Olefin Polymers) - Polypropylene homopolymer	--
a) Density	PASS
b) Melting point	PASS
c) Extractable fraction	PASS
d) Soluble fraction	PASS
2. US FDA 21 CFR 177.1520 (Olefin Polymers) - Polypropylene copolymer	--
a) Density	PASS
b) Extractable fraction	PASS
c) Soluble fraction	PASS
3. US FDA 21 CFR 177.1210 (Closure with Sealing Gaskets) – Determination of Amount of Net Chloroform Soluble Extractives	PASS
4. Stainless steel for food contact use in US – Total Chromium content	PASS

Signed for and on behalf of
SGS Hong Kong Ltd.



Che Wai Leuk, Jerry
Technical Manager

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Test Report

No.: T31720292308SC

Date: JAN 05, 2018

Page 3 of 8

Test Results :

1. US FDA 21 CFR 177.1520 (Olefin Polymers) - Polypropylene homopolymer

a) Density

Method : With reference to 21 CFR 177.1520 d(1) or ASTM D792:2008, determined at 23°C.

Test Item	Result (g/mL)	Permissible Limit (g/mL)
	1	
Density at 23°C	0.912	0.880 – 0.913
Comment	PASS	--

Sample Description :

- White Plastic (Lid)

Note : g/mL = gram per milliliter

b) Melting point

Method : With reference to 21 CFR 177.1520 (d)(2).

Test Item	Result (°C)	Permissible Limit (°C)
	1	
Melting Point	170-172	160 – 180
Comment	PASS	--

Sample Description :

- White Plastic (Lid)

Note : °C = degree Celsius

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Test Report

No.: T31720292308SC

Date: JAN 05, 2018

Page 4 of 8

Test Results (Cont'd) :

c) Extractable fraction

Method : With reference to 21 CFR 177.1520 (d)(3)(i). Sample preparation in n-hexane at reflux temperature for 2 hours.

Test Item	Result (% w/w)	Reporting Limit (% w/w)	Permissible Limit (% w/w)
	1		
Extractable fraction	0.4	0.1	6.4
Comment	PASS	--	--

Sample Description :

1. White Plastic (Lid)

Note : 1. % w/w = percentage of weight by weight

2. ND = Not Detected

d) Soluble fraction

Method : With reference to 21 CFR 177.1520 (d)(4)(i). Sample preparation in xylene at 25°C.

Test Item	Result (% w/w)	Reporting Limit (% w/w)	Permissible Limit (% w/w)
	1		
Soluble fraction	0.9	0.1	9.8
Comment	PASS	--	--

Sample Description :

1. White Plastic (Lid)

Note : 1. % w/w = percentage of weight by weight

2. ND = Not Detected

3. °C = degree Celsius

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Test Report

No.: T31720292308SC

Date: JAN 05, 2018

Page 5 of 8

Test Results (Cont'd) :

2. US FDA 21 CFR 177.1520 (Olefin Polymers) - Polypropylene copolymer

a) Density

Method : With reference to 21 CFR 177.1520 d(1) or ASTM D792:2008, determined at 23°C.

Test Item	Result (g/mL)	Permissible Limit (g/mL)
	1	
Density at 23°C	0.90	0.85 – 1.00
Comment	PASS	--

Sample Description :

- White Plastic (Spout)

Note : g/mL = gram per milliliter

b) Extractable fraction

Method : With reference to 21 CFR 177.1520 (d)(3)(ii). Sample preparation in n-hexane at 50°C for 2 hours.

Test Item	Result (% w/w)	Reporting Limit (% w/w)	Permissible Limit (% w/w)
	1		
Extractable fraction	1.4	0.1	5.5
Comment	PASS	--	--

Sample Description :

- White Plastic (Spout)

Note : 1. % w/w = percentage of weight by weight
 2. ND = Not Detected
 3. °C = degree Celsius

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Test Report

No.: T31720292308SC

Date: JAN 05, 2018

Page 6 of 8

Test Results (Cont'd) :

c) Soluble fraction

Method : With reference to 21 CFR 177.1520 (d)(4)(ii). Sample preparation in xylene at 25°C.

Test Item	Result (% w/w)	Reporting Limit (% w/w)	Permissible Limit (% w/w)
	1		
Soluble fraction	10.1	0.1	30.0
Comment	PASS	--	--

Sample Description :

1. White Plastic (Spout)

Note : 1. % w/w = percentage of weight by weight

2. ND = Not Detected

3. °C = degree Celsius

3. US FDA 21 CFR 177.1210 (Closure with Sealing Gaskets) – Determination of Amount of Net Chloroform Soluble Extractives

Method : With reference to US FDA 21 CFR 177.1210.

For preformed overall discs or annular rings from vulcanized plasticized polymers including rubber :

Extractants	Test Condition	Result (ppm)		Reporting Limit (ppm)	Permissible Limit (ppm)
		1	2		
Distilled Water	Fill boiling, cool to 100°F	ND	ND	5	50
8% Alcohol	Fill boiling, cool to 100°F	ND	ND	5	50
n-Heptane	120°F for 15 minutes	ND	ND	5	50
Comment	--	PASS	PASS	--	--

Sample Description :

1. Brown Silicone Rubber (Gasket)

2. Orange Silicone Rubber (Gasket)

Note : 1. ppm = parts per million

2. °F = degrees Fahrenheit

3. ND = Not Detected

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Test Report

No.: T31720292308SC

Date: JAN 05, 2018

Page 7 of 8

Test Results (Cont'd) :

4. Stainless steel for food contact use in US – Total Chromium content

Method : Acid digestion followed by analysis with Inductively Coupled Argon Plasma – Atomic Emission Spectrometry.

Test Item	Result (%)	Reporting Limit (%)	Requirement
	1		
Chromium (Cr)	18.1	0.005	Not less than 10.5%
Comment	PASS	--	--

Sample Description :

1. Silvery Metal (Inner Body)

Note : 1. % = Percentage by weight
2. ND = Not Detected

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Photo Appendix



*** End of Report ***

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