

Test Report

Report No.: 200426133GZU-001

Date: May 12, 2020

Applicant: Jiangmen Mielux Intelligent and Technology Co., Ltd.

Tongle Road #13, Tangxia Town, Pengjiang District,
Jiangmen, Guangdong, China

Sample Description:

The following submitted sample(s) said to be part used for:

Item Name : **Bread maker**
BM8101, BM8101-B, BM8103, BM8103-B, BM8501, BM8501-B, BM8502,
BM8502-B, BM8511, BM8511-A, BM8511-PE, BM8520, BM8301,
BM8301-A, BM8301-B, BM8302, BM8302-B, BM8305, BM8305-B, BM8311,
BM8601, BM8601-A, BM8601-B, BM8602, BM8602-B, BM8605, BM8605-B,
BM8201, BM8203, BM8203-AC, BM8205, BM8205-A, BM8205-B,
BM8205-AC, BM8206, BM8206-AC, BM8202, BM8202-A, BM8202-AC,
BM8202-S, BM8202-B, BM8215, BM8215-A, BM8215-B, BM8215-AC,
Reference No. : BM8216, BM8216-A, BM8216-B, BM8216-AC, BM8611, BM8621,
BM8621-A, BM8701, BM8702, BM8901, BM8901-A, BM8902, BM8902-A,
BM8902-T, BM8902-AC, BM8903, BM8903-A, BM8903-AC, BM8905,
BM8905-AC, BM8906, BM8906-A, BM8907, BM8907-A, BM8908, BM8909,
BM8910, BM8910-A, BM8911, BM8010, BM8010-A, BM8010-B,
BM8010-AC, BM8021, BM8021-AC, BM8021-A, BM8021-
B, BM8011, BM8011-AC, BM8012, BM8013, BR201, BR202, BR203, BR204,
BR205, BR206, BR207, BR208, CM501, CM502.
Date of Sample Received : Apr 27, 2020
Testing Period : Apr 27, 2020 to May 9, 2020

Tests conducted:

As requested by the applicant, refer to following page(s) for details.

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch:

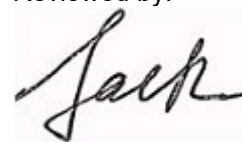
Prepared by:



Silva Zhou
Supervisor



Reviewed by:



Jack Yang
Technical Supervisor



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Conclusion:

Tested Sample	Standard	Result
(1)	U.S. 21 CFR F.D.A. Regulation Part 177.1520 Clause 3.1a and 3.1b for olefin copolymer	Pass
(4)	U.S. 21 CFR F.D.A. Regulation Part 177.1550 Clauses e(1) & e(3) on perfluorocarbon resins	Pass
(5)	U.S.21 CFR F.D.A Regulation Part 177.1210 Clause (c) on closures with sealing gaskets for food containers.	Pass
(8)~(12)	FDA General Recognized As Safe (GRAS)	Pass
(6), (7)	U.S. F.D.A. Regulation Part 21 CFR 175.300 Clause c4 on coating intended for repeated use and employed as a component of non container	Pass
(13)	U.S. F.D.A. Compliance Policy Guide Part 7117.06(2005) and 7117.07(2005) on ceramic ware	See Remark
(3)	U.S. F.D.A. Regulation 21 CFR Part 177.1580 Clause (c)(2) on polycarbonate resins	Pass
(2)	U.S. F.D.A. Regulation 21 CFR Part 177.1500 Clause (b) (1) on nylon 66 resins--- Melting point, Solubility in boiling 4.2N HCl Maximum extractable fraction in wat /in 95% ethyl alcohol /in ethyl acetate/ in benzene	Pass



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Test Components:

- (1) Semi-transparent PP plastic (copolymer)
- (2) Black PA66 + 30 GF% plastic
- (3) Black PC plastic
- (4) White PTFE plastic
- (5) Red silicone rubber
- (6) Black non-stick coating on metal (bucket)
- (7) Black non-stick coating on metal (plate)
- (8) Silver color metal (SUS304)
- (9) Silver color metal (SUS202)
- (10) Silver color metal (SUS430)
- (11) Silver color metal (Al)
- (12) Silver color metal (Al plated)
- (13) Transparent glass

1. Test for F.D.A. Regulation on Olefin Copolymer

As per the U.S. Food and Drug Administration 21 CFR Part 177.1520 Clause 3.1a and 3.1b.

Test item	Result	Reporting Limit	Limit
	(1)		
Density (By sink float method)	0.9	--	0.85 - 1.00 (3.1a) 0.9 - 1.00 (3.1b)
Maximum extractable fraction in n-Hexane, %	2.4	1.0	5.5 / 2.6
Maximum extractable fraction in Xylene, %	3.0	1.0	30



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2. Test for F.D.A. Regulation on Perfluorocarbon Resins

As per the U.S. 21 CFR Food and Drug Administration Part 177.1550 Clauses e(1) & e(3).

Test item	Result(mg/in ²)	Reporting limit (mg/in ²)	Limit (mg/in ²)
	(4)		
Total extractives in water	ND	0.10	0.2
Total extractives in 50% ethyl alcohol	ND	0.10	0.2
Total extractives in n-heptane	ND	0.10	0.2
Total extractives in ethyl acetate	ND	0.10	0.2
Fluoride extractives in water	ND	0.01	0.03
Fluoride extractives in 50% ethyl alcohol	ND	0.01	0.03
Fluoride extractives in n-heptane	ND	0.01	0.03
Fluoride extractives in ethyl acetate	ND	0.01	0.03

ND = Not Detected



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3. Test for F.D.A. Regulation on Closure with Sealing Gaskets for Food Containers

As per the U.S.21 CFR Food and Drug Administration Part 177.1210 Clause (c).

I. Condition of use

A. High temperature heat-sterilized (e.g. Over 212°F/100°C)

II. Result

<u>Test item</u>	<u>Result</u>	<u>Reporting limit</u>	<u>Limit</u>
	(5)		
Soluble chloroform fraction in water extractant, ppm	ND	10	50
Soluble chloroform fraction in heptane extractant, ppm	ND	10	50/250/500

Remark: The limit 50ppm for preformed overall discs or annular rings of vulcanized plasticized polymers, including natural or synthetic rubber

The limit 250 ppm for preformed overall discs or annular rings of polymeric or resinous-coated paper, paperboard, plastic, or metal foil substrates and Preformed overall discs or annular rings of plasticized polymers, including unvulcanized natural or synthetic rubber

The limit 500ppm for plasticized polymers, including unvulcanized or vulcanized or otherwise cured natural and synthetic rubber formed in place as overall discs or annular rings from a hot melt, solution, plastisol, organisol, mechanical dispersion, or latex

ND=Not detected



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4. Leachable Arsenic(As), Cadmium(Cd), Lead (Pb) and Mercury(Hg) Content

By acid extraction and followed by Inductively Coupled Argon Plasma Spectrometry analysis.

Tested component	Result(mg/L)				Reporting limit (mg/L)	Limit (mg/L)
	As	Cd	Pb	Hg		
(12)	ND	ND	ND	ND	0.1	ND

ND = Not Detected

5. Total Chromium content

By acid digestion followed by Inductively Coupled Plasma Emission Spectroscopic analysis.

Results:

Element	Result in %			Requirement %
	(8)	(9)	(10)	
Chromium (Cr)	18.11	17.09	16.06	16 min

6. Test for F.D.A. Regulation on Resinous and Polymeric Coating

As per the U.S. Food and Drug Administration 21 CFR Part 175.300, Clause c4.

I. Condition of use

A. High temperature heat-sterilized (e.g. Over 212°F/100°C)

II. Result

Test item	Result		Reporting limit	Fixed limit
	(6)	(7)		
Chloroform soluble extractive in water, mg/in ²	ND	ND	2.0	18
Chloroform soluble extractive in heptane, mg/in ²	ND	ND	2.0	18

ND = Not detected

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7. Leachable Lead and Cadmium Content - Internal Contact Surface

As per U.S. FDA CPG 7117.06(2005), 7117.07(2005) and A.O.A.C. Official Methods of Analysis 18th Edition (2005) Method 973.32 by Atomic Absorption Spectrophotometric analysis.

<u>Tested Article</u>	<u>Volume of Leaching Solution (ml)</u>	<u>Tested component (13)</u>	
		<u>Lead (ppm)</u>	<u>Cadmium (ppm)</u>
(A)	300	<0.05	<0.03
(B)	300	<0.05	<0.03
(C)	300	<0.05	<0.03
(D)	300	<0.05	<0.03
(E)	300	<0.05	<0.03
(F)	300	<0.05	<0.03
Average:		<0.05	<0.03
Limit: (U.S. FDA Flatware)		3.0	0.5

ppm = parts per million = mg/l
< = Less than

Remark: The limits were quoted according to U.S. FDA Compliance Policy Guide Part 7117.06(2005) and 7117.07(2005) on ceramic ware.

The testing scope of the standard(s) were not applicable to the submitted samples. However, the test results of the samples met the related requirements as stated in this report.

The requested test standard is not applicable to the submitted articles and the test result will be for reference only.



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8. Test for F.D.A. Regulation on Polycarbonate Resins

As per the U.S. Food and Drug Administration 21 CFR Part 177.1580 Clause (c)(2).

<u>Test item</u>	<u>Result</u> (3)	<u>Reporting limit</u>	<u>Limit</u>
Maximum extractable fraction in water, %	ND	0.10	0.15
Maximum extractable fraction in 50% ethyl alcohol, %	ND	0.10	0.15
Maximum extractable fraction in n-heptane, %	ND	0.10	0.15

ND = Not Detected

9. Test for F.D.A. Regulation on Nylon 66 Resins

As per the U.S. Food and Drug Administration 21 CFR Part 177.1500 Clauses (b) (1) and d(1-4).

<u>Test item</u>	<u>Result</u> (2)	<u>Reporting limit</u>	<u>Nylon 66 limit</u>
Melting point, °F	491	--	475 to 495
Solubility in boiling 4.2N HCl	Complied	--	Dissolves in 1 hour
Maximum extractable fraction in water, %	0.19	0.10	1.5
Maximum extractable fraction in 95% ethyl alcohol, %	ND	0.10	1.5
Maximum extractable fraction in ethyl acetate, %	ND	0.10	0.2
Maximum extractable fraction in benzene, %	ND	0.10	0.2

ND = Not detected

30% Glass Fiber was added in this components, and Specific gravity was not conducted in this Items.

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10. Aluminium Composition Testing

By chemical digestion and Inductively Coupled Plasma (ICP) Spectrophotometric Analysis.

Element	Result (% (w/w))
	(1)
Aluminium (Al)	99.73
Iron (Fe) + Silicon (Si)	0.17
Copper (Cu)	<0.01
Chromium (Cr)	<0.01
Magnesium (Mg)	<0.01
Manganese (Mn)	<0.01
Nickel (Ni)	<0.01
Zinc (Zn)	<0.01
Titanium (Ti)	<0.01
Tin (Sn)	<0.01
Gallium (Ga)	0.01
Vanadium (V)	<0.01

Remark: Aluminium content is reported by calculation as the difference between 100 percent and the sum of other elements listed.

Leachable Arsenic(As), Cadmium(Cd), Lead (Pb) and Mercury(Hg) Content

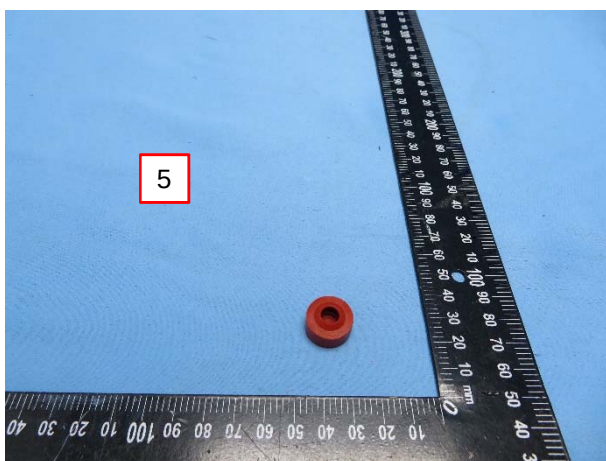
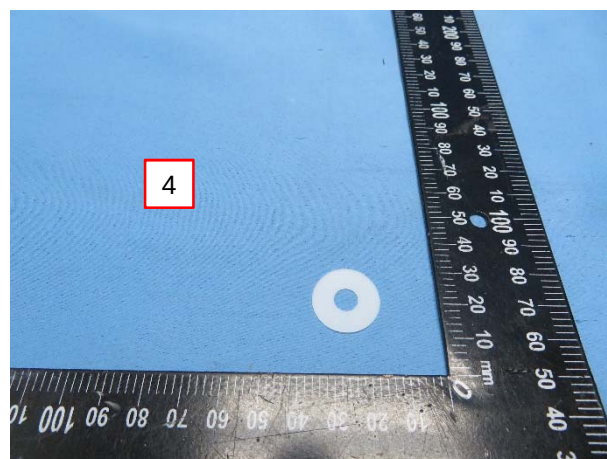
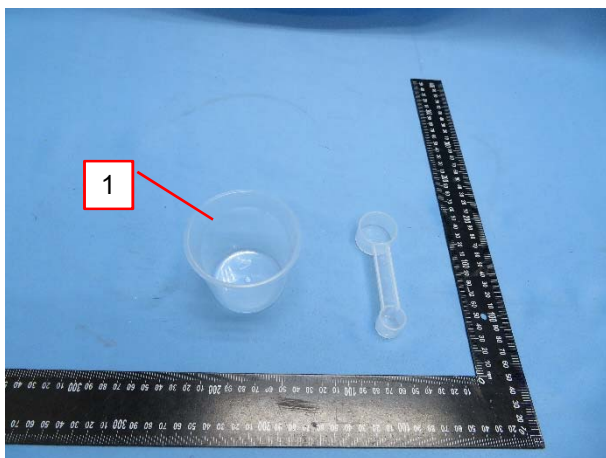
By acid extraction and followed by Inductively Coupled Argon Plasma Spectrometry analysis.

Tested component	Result(mg/L)				Reporting limit (mg/L)	Limit (mg/L)
	As	Cd	Pb	Hg		
(11)	ND	ND	ND	ND	0.1	ND

ND = Not Detected



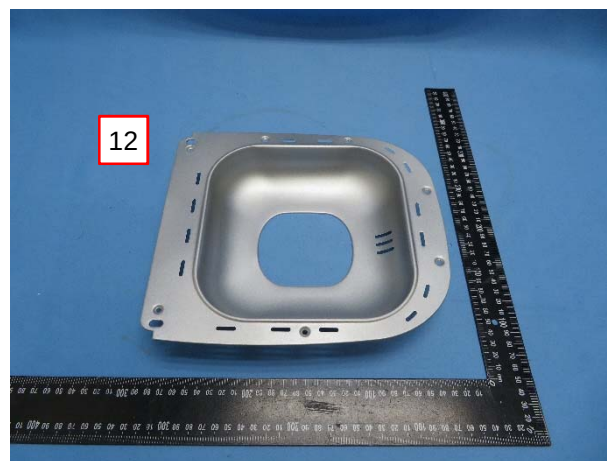
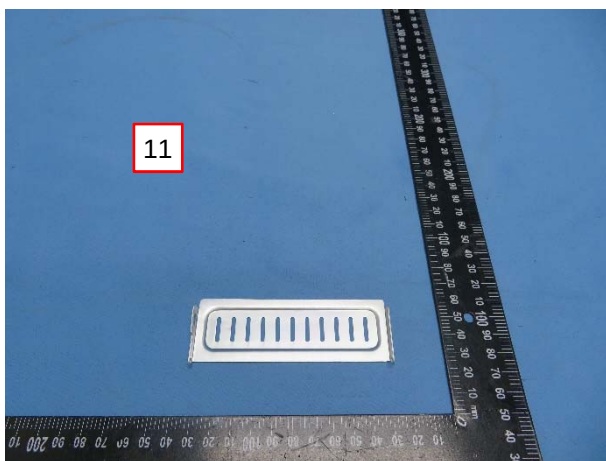
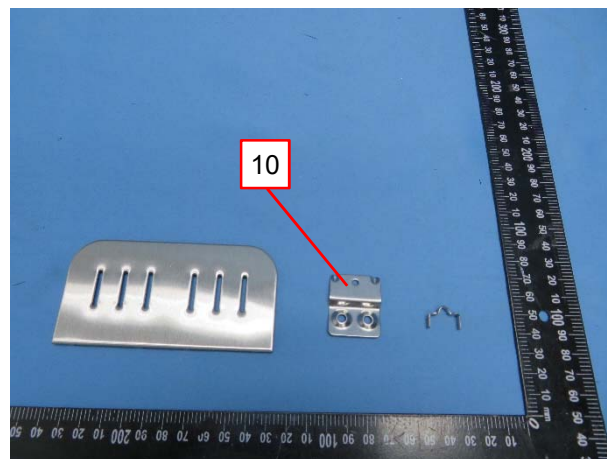
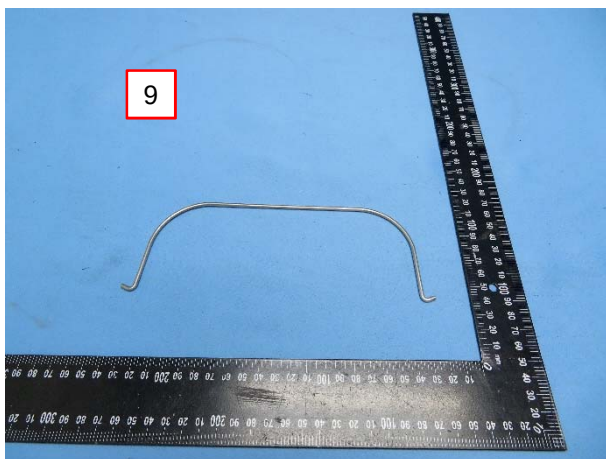
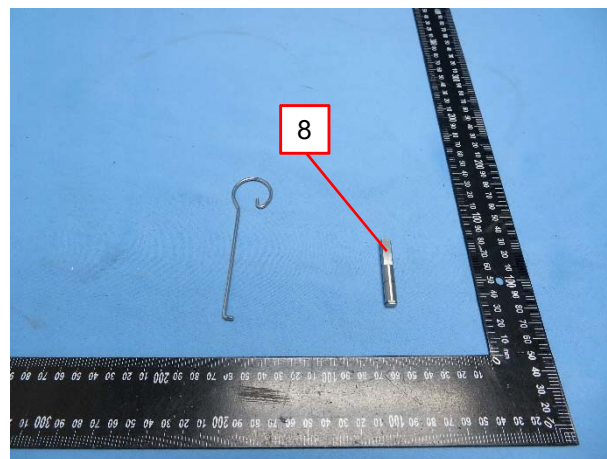
Sample photo



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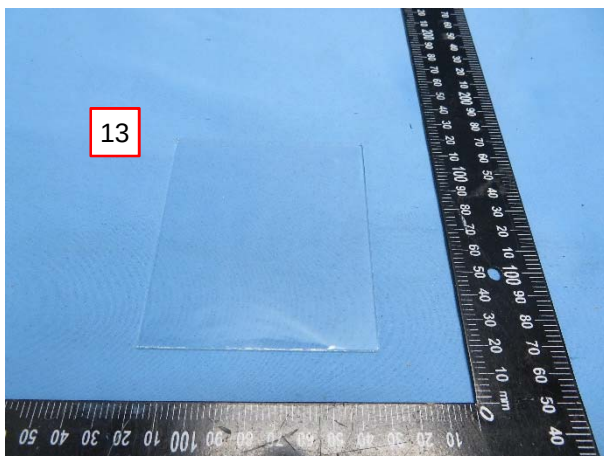
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Reference Photo



End of report

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