

Test Report

Number: 2508B1078SHA-001R2

Applicant: NINGBO HEZE ELECTRONIC APPLIANCE CO., LTD
No. 5, Yaobei East Road, Linshan Town, Yuyao City, Zhejiang, China

Date: Jun. 05, 2026
**THIS IS TO SUPERSEDE REPORT
NO. 2508B1078SHA-001R1,
DATED Oct. 17, 2025**

Sample Description:

Item Name : Ice maker
Tested Model : HZ-N001, HZ-N002, HZ-N003, HIM-02N
IM039, HZ-N201, HZ-N202, HZ-N203, HZ-N204A, HZ-N204B, HZ-N204C, HIM-03N
Test material : 1) White PP; 2) White PP; 3) Black PP; 4) White UPE; 5) Black PPA (PA+GF);
6) Transparent dark gray ABS; 7) Transparent PVC; 8) Transparent Silicone; 9) Black rubber;
10) White ceramic; 11) SUS304, A) Transparent PCTG; B) Beidge PPA (PA+GF);
C1) Transparent white PP; C2) White ABS; C3) Blue silicone

Tests Conducted:

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

As requested by the applicant, Revise Model No and add new component C1-C3 in this 2nd revised report.

To be continued

Authorized By:
For Intertek Testing Services Ltd. Shanghai



Wenjia Gu
Senior Manager



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Tests Conclusion:

<u>Tested Sample</u>	<u>Standard</u>	<u>Result</u>
Tested component of submitted sample	U.S. 21 CFR F.D.A. regulation part 177.1520 clauses (c)(1.1a and 1.1b) on polypropylene	Pass
	U.S. 21 CFR F.D.A. regulation part 177.1520 clause 3.1a and 3.1b for olefin copolymer	Pass
	U.S. 21 CFR F.D.A. Regulation part 180.22 on finished food contact article	Pass
	U.S F.D.A. regulation 21 CFR part 177.1975 on Vinyl Chloride Polymer Resin	Pass
	U.S. 21 CFR F.D.A. regulation part 177.1210 clause (c) chloroform soluble extractive on closures with sealing gaskets for food containers	Pass
	U.S. F.D.A. Regulation 21 CFR Part 177.2355 clauses c on mineral reinforced nylon resins	Pass
	U.S. 21 CFR F.D.A regulation part 177.1315 clause (b) maximum extractable fractions of terephthaloyl moieties / chloroform soluble extractive residue	Pass
	FDA General Recognized As Safe (GRAS)	Pass
	U.S. F.D.A. Compliance Policy Guides 7117.06(2005) and 7117.07(2005) on leachable lead and cadmium for ceramic ware	Pass

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1) F.D.A. Regulation On Polypropylene

As per the U.S. 21 CFR Food And Drug Administration part 177.1520 clauses (c)(1.1a and 1.1b) and (d) with modification on density and melting point.

		<u>Result</u>		<u>Limit</u>
	(1)	(2)	(3)	
(A) Density (by sink float method)	0.868	0.894	0.884	0.880 - 0.913
(B) Melting point, °C (by melting point apparatus)	166.3	165.3	166.4	160 - 180 (1.1a) 150 - 180 (1.1b)
(C) Maximum extractable fraction in n-hexane, % (w/w)	<1.0	<1.0	<1.0	6.4
(D) Maximum extractable fraction in xylene, % (w/w)	9.4	1.3	1.6	9.8

Remark: < = Less than

2) F.D.A. Regulation On Olefin Copolymer

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

		<u>Result</u>	<u>Limit</u>
	(4)	(C2)	
(a) Density	0.907	0.900	0.85 - 1.00 (3.1a) 0.9 - 1.00 (3.1b)
(b) Maximum extractable fraction in n-hexane, % (w/w)	<1.0	<1.0	5.5
(c) Maximum extractable fraction in xylene, % (w/w)	<1.0	7.5	30

3) Test for F.D.A. Regulation on Acrylonitrile Copolymers

As per the U.S. 21 CFR Food And Drug Administration part 180.22.

I. Condition of use: Repeated-use articles

II. Test Result:

<u>Food Simulating Solvent</u>	<u>Acrylonitrile Monomer Content</u> <u>(mg/in²)</u>		<u>Limit (max) (mg/in²)</u>
	(6)	(C1)	
Distilled water	<0.0003	<0.0003	0.003

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4) F.D.A. Regulation (Proposed Rules) On Vinyl Chloride Polymer Resin

As per U.S. Food And Drug Administration part 177.1975.

<u>Test item</u>	<u>Result (ppb)</u> (7)	<u>Limit</u>
Residual vinyl chloride monomer	<5	10 ppb

Remark: ppb = Parts per billion
Detection limit = 5 ppb

5) F.D.A. Regulation On Closures 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

G: Frozen storage

II. Test Item

	<u>Result</u> (8)	<u>Result</u> (9)	<u>Reporting limit</u> (C3)	<u>Limit</u>
(A) Chloroform soluble extractive in water, (mg/L)	<20	<20	<20	50

6) F.D.A. Regulation on Mineral Reinforced Nylon Resins

As per the U.S. Food and Drug Administration 21 CFR Part 177.2355 clauses c.

<u>Test Item</u>	<u>Result (mg/in²)</u>		<u>Reporting limit</u> (mg/in ²)	<u>Limit</u> (mg/in ²)
	(5)	(B)		
Total extractives in distilled water, mg/in ²	ND	ND	1	5
Total extractives in 50% ethyl alcohol, mg/in ²	ND	2	1	5
The ash after ignition of total extractives In distilled water, mg/in ²	ND	0.2	0.1	0.5
The ash after ignition of total extractives in 50% ethyl alcohol, mg/in ²	ND	0.2	0.1	0.5

Remark: ND=Not Detected

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7) Test For F.D.A Regulation On Ethylene-1,4-Cyclohexylene Dimethylene Terephthalate Copolymers

As per the U.S CFR food and drugs administration part 177.1315 clause (b), by the ultraviolet (UV) absorbance analysis.

I. Condition of use:

2) In contact with nonalcoholic foods including carbonated beverages. Conditions of hot fill not exceeding 87.8 deg. C (190 deg. F), storage at temperatures not in excess of 48.9 deg. C (120 deg. F).

II. Test Item:

1. Extractable fractions of terephthaloyl moieties

<u>Extracted Solution</u>	<u>Result (μg/ in²)</u> <u>(A)</u>	<u>Limit (μg/ in²)</u>
(1) Water	<0.1	1.5
(2) 3 % (v/v) Aqueous acetic acid	<0.1	1.5
(3) N-heptane	<0.1	0.5
(4) 20 % (v/v) Aqueous ethanol	<0.1	1.5
(5) 25%(v/v) Aqueous ethanol	<0.1	1.0
(6) 50 % (v/v) Aqueous ethanol	<0.1	1.5

8) Leachable Lead And Cadmium Content - Internal Surface

With reference to U.S. F.D.A. C.P.G. 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>Specimen</u>	<u>Volume of leaching solution</u> <u>(mL)</u>	<u>Lead</u> <u>(ppm)</u>	<u>Cadmium</u> <u>(ppm)</u>
(10)	50	<0.05	<0.03
(10-1)	50	<0.05	<0.03
(10-2)	50	<0.05	<0.03
(10-3)	50	<0.05	<0.03
(10-4)	50	<0.05	<0.03
(10-5)	50	<0.05	<0.03
(10-6)	50	<0.05	<0.03
Limit: (flatware)		3.0	0.5

Remark : ppm = Parts per million = mg/L
< = Less Than

9) FDA GRAS Total Chromium (Cr) Content

With reference to FDA Generally Regarded As Safe (GRAS) guidelines, acid digestion was used and total Chromium was detected by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

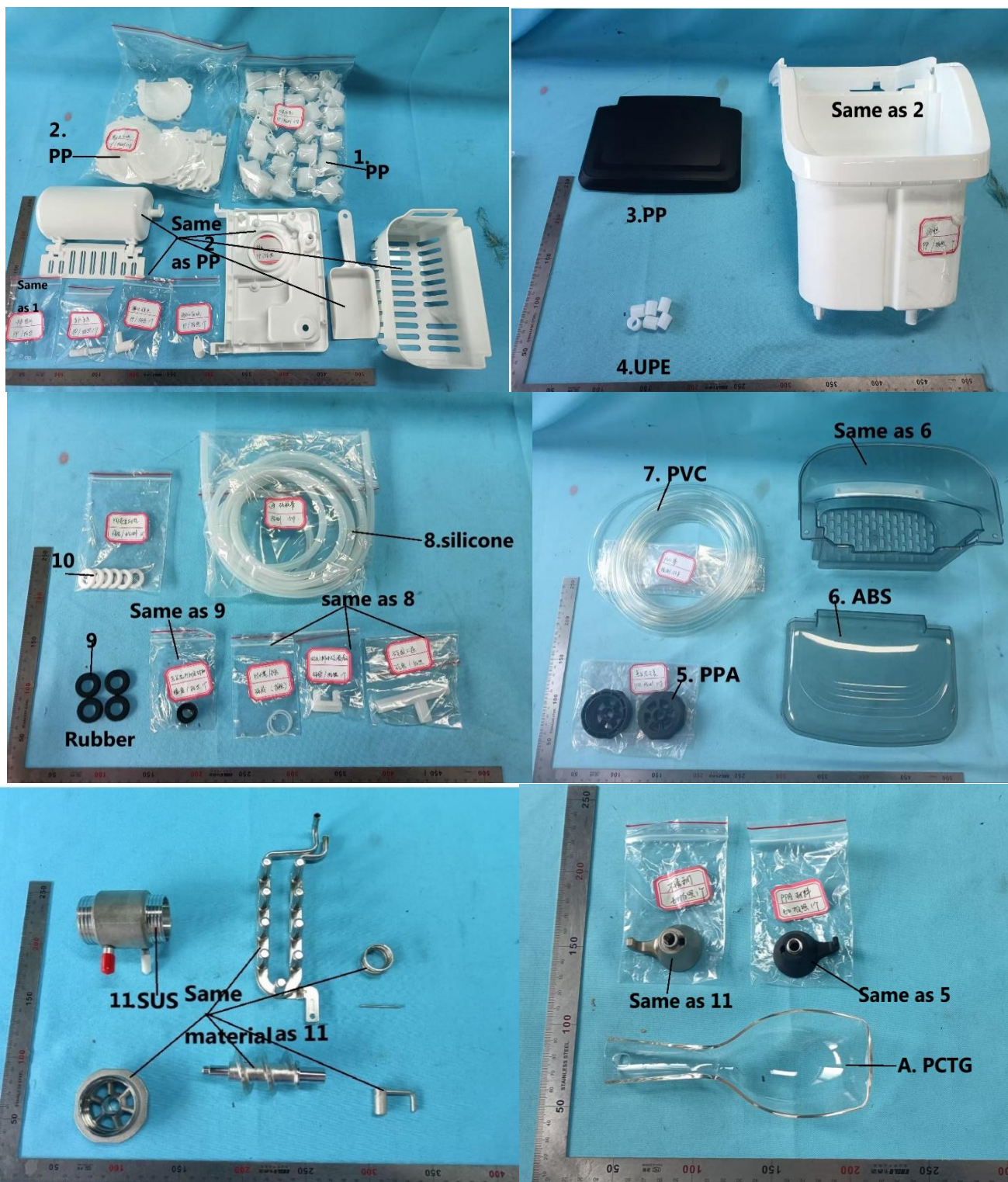
<u>Tested Sample</u>	<u>Result in (% (w/w))</u>	<u>Limit in (% (w/w))</u>
(11)	17.43	16.00 (min.)

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Photos of Whole products



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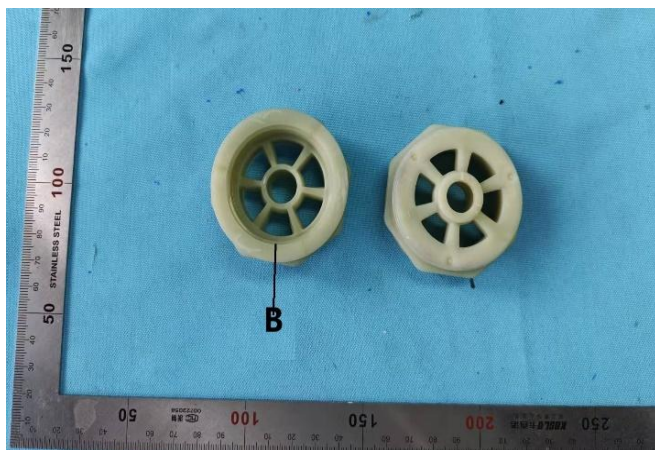
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PPA Evaporator base (Same as 5)



PP (Same as 1)



B



C2. ABS

C1. PP

C3. Silicone

Same as B
PPA



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Same as 6

Same as 8



Same as C2

Date Sample Received: Aug 13, 2025; Aug 20, 2025; Sep.24, 2025; May.13, 2026;

Testing Period: Aug 13, 2025 to Aug 28, 2025; Sep.24, 2025 to Oct.09, 2025; May.13, 2026 to ; May.25, 2026;

End of This Report

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