

IGLOO®

Product Performance Specification

Playmate Kool Tunes V2



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1. Product Description

1.1. The Playmate (Side Button) Kool Tunes Version 2 will be made up in China. This Playmate with new body will "only" be used for Kool Tunes product. The Playmate Kool Tunes V2 will be Bluetooth version instead of using cable as the previous version, having two speakers and all the specs in place as the Playmates manufactured in Katy.

1.2. New Playmate Kool Tunes Version 2 Bluetooth Cooler Assembly consisting of the following components

1.2.1. Actual Injection Molded Liner – PP

1.2.2. New Blow Molded Body – HDPE

1.2.3. Actual Injection Molded Button Insert –PP

1.2.4. Actual Injection Molded Hinge Insert – PP

1.2.5. Actual Injection Molded Button Insert – PP

1.2.6. Actual Injection Molded Lid –PP

1.2.7. Actual Injection Molded Hinge Cover – PP

1.2.8. Actual Injection Molded Lid Cover – PP

1.2.9. Polyurethane Foam

1.2.10. Screw (#10 x 5/8 LG/Round Washer)

1.2.11. Spring (.040 Wire, 1.062 Long, Spring O.D. .475")

1.2.12. 2 Speakers

1.2.13. New 1 Back frame- PP

1.2.14. New Batteries case- PP

1.2.15. Lithium Battery

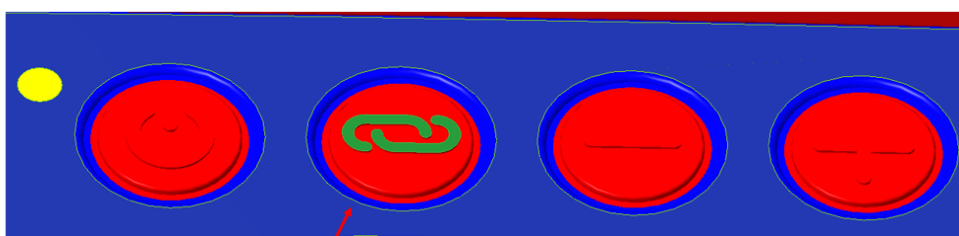
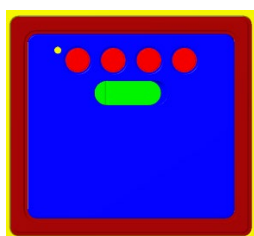
2. The Speaker Parameters will be:

Bluetooth	BLUETRUM AB5325B V5.0
Speaker	33mm*2 4Ω 5W
Output Power	10W@10%THD+N
Signal-to-noise ratio	>85dB
Frequency response	80Hz-20KHz
Input voltage	5V
Input Current	1000mAh
Total harmonic distortion	3%
Battery	3.7 V 2400mAh (Go 3 is 750mAh)
Bluetooth distance	>10m
TWS distance	N/A
Playing Time	5+ hours at 50% volume
N.W.	

IP56	Protects From splashing water, no matter the direction
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Product operation :

- 1、 Button, indicator light and interface definition :
- 2、 The blue light flashes before pairing, the blue light is always on when the pairing is connected, the low battery red light flashes, the charging red light, the full green light.



- 3、 General operation definition

operation	definition
Turn on	Long press the key to turn on and off, it will enter the Bluetooth mode by default after power on, and the volume of each power on is 60% by default.
Mode switch	N/A
Volume increase	Using push button and Bluetooth connection.
Volume down N/A	Using push button and Bluetooth connection.
Enter Bluetooth pairing	Enter Bluetooth pairing mode after power on (blue light flashes)
TWS pairing	N/A

- 4、 Working mode

Mode	Description
The Bluetooth	To enter the Bluetooth mode by default, and the working status indicator will flash red and blue. Turn on the phone's Bluetooth to search for Bluetooth devices. When the search finds: Kool Tunes, click Connect. After the Bluetooth connection is successful, the

	working status indicator will stop flashing and turn on. , To clear the Bluetooth connection and re-enter the pairing state
TWS	N/A

5、 Power management

State	Processing method
Idle state	The product supports energy saving requirements. When the product is paused/mute or Bluetooth is not connected for more than 20 minutes, the product will automatically shut down to save energy
Low battery	When the product is working to a lower power level, the product will automatically send out a voice announcing low battery and also a low battery light, the power indicator will continue to flash, and the volume will automatically be reduced to 60% to save power consumption, prompting users to charge the product as soon as possible
Charging	When the product is used for the first time or when the battery is low, the product needs to be charged in time. The product is not equipped with a charging adapter. It is recommended to use the brand-certified DC 5V 1.2A adapter and the standard charging cable of this product for charging. The red battery indicator is indicated during the charging process. The light will light up to show the current battery level. After fully charged, the battery level indicator will be green; if the product is not used for a long time, it is recommended to charge the product once every 3 months
Indicator light	The Bluetooth light is blue, and the battery indicator light is red

Hardware specifications :

project	Minimum value	Typical value	Maximum value	Unit	Test condition
Battery factory voltage	3.2	3.7	4.2	V	24°Cno load
Battery working voltage	3.2	3.7	4.2	V	Suspend work at 24°C
battery capacity	2400	2400	2400	mAh	24°C 0.2C charge and discharge
Charging voltage	4.8	5.0	5.5	V	
Constant charging current	1000	1200	1250	mA	Battery voltage 3.7V

stand-by current	N/A	55	60	uA	Shutdown & Energy Saving
Low battery prompt voltage	3.2	N/A	N/A	V	-10dB pink noise Maximum volume in Bluetooth mode
Low battery shutdown voltage	3.2	N/A	N/A	V	-10dB pink noise Maximum volume in Bluetooth mode
Bluetooth version	N/A	5.0	N/A	N/A	-
Bluetooth distance	10	15	N/A	m	360 degree open field iPhone
TWS distance	N/A	N/A	N/A	m	360 degree open field
Bluetooth frequency range	2.402	2.400	2.480	GHz	
Bluetooth transmission power	-20	-5	10	dBm	Class2
Bluetooth receiving sensitivity	N/A	-93	N/A	dBm	
Bluetooth audio decoding method	N/A	SBC	N/A	N/A	
supporting agreement	A2DPV1.2 , AVRCPV1.4 , HFPV1.5 , HSP1.2 , GAVDP1.2				

3. Reference Documents

2.1 Refer to Engineering/Technical Drawing

- 2.1.1 Igloo Assembly and Released for Tooling Data
- 2.1.2 Igloo Generic Specification for Hardside Coolers (IPS-INT-05)
- 2.1.3 Label Adhesion Test for Hardside Coolers (OMS-QA-825-003)
- 2.1.4 Side Wall Lid and Body Gap (IAS-QS-7.5.1-036)
- 2.1.5 Electronic Drawings from Bluetooth and speakers vendor.

4. Product Performance:

3.1 Capacity of Rigid Container

- 3.1.1 Test to be performed in accordance to Igloo Spec 8.1 of Igloo Generic Spec. IPS-INT-05.

3.2 Impact Test

- 3.2.1 Product should resist 3 drop tests of 3 feet height with no damages on it's performance.
- 3.2.3 Handle Strength - Test to be performed in accordance to Igloo Generic Spec 8.3 of the Igloo Generic Spec.

3.3 Labeling and Packaging

- 3.3.1 Marking and Labeling - in accordance to Igloo Spec 9.0 of Igloo Generic Spec IPS-INT-05
- 3.3.2 Packaging - Must perform per Igloo Spec 11.0 in accordance with Igloo Generic Spec IPS-INT-05
- 3.3.3 Package must withstand test protocol ISTA 2A
- 3.3.4 Package must withstand shipping by small parcel, air, rail, and sea containers without damage to the product. At a minimum, to the cosmetic and performance of the product.

3.4 Label Adhesion and Alignment

- 3.4.1 Labels must not peel away from a substrate at a force less than 5 lbs.
- 3.4.2 Labels must not peel away from a substrate at a max. temperature of 125 F.
- 3.4.3 Labels must not peel away from a substrate at a minimum temperature of 15 F
- 3.4.4 Label "must" be 100% free of any bubbles or creases
- 3.4.5 Maximum label misalignment from edge to edge of the product is 1/8"
- 3.4.5 Label must be straight within 1/8"

5. Product Control Plan

No.	Attribute Description	Specification	Process Control	Frequency
1	Critical Dimension	Per Print	Yes	FAI
2	Function ability	Product should work as intended Wireless range must be 30-ft.	Yes	AQL
3	Flash	None Allowed. Surfaces should feel smooth when you run your hand around the perimeter	Yes	100%
4	Scratches	None visible from 12" when removed from the packaging	Yes	AQL
5	Cleanliness	Should have no visible dirt or grim from 18"	Yes	AQL

6. Regulatory / Materials:

- 6.1.** The materials used in these products shall conform to the applicable Igloo specifications and requirements of the product documentation.
- 6.2.** Alternatives and Deviations- Alternative materials or parts shall not be used without first obtaining the Igloo Product Corporation's written approval of the proposed change.
- 6.3.** Materials shall conform to the applicable specifications and requirements of the product documentation. All materials must have proper regulatory listings where required.
- 6.4. Heavy Metals** - The use of heavy metals (i.e. cadmium, lead, mercury, hexavalent Chromium) shall be restricted from product component materials (any part of the finished product assembly including, but not limited to packaging, inks, labels, pigments, adhesives, coatings, plastic materials). Incidental heavy metal content shall not exceed 100 ppm (as a total concentration of Pb, Hg, Cd and Cr VI, with the Pb concentration not to exceed 30 ppm).
- 6.5. Food-contact surfaces** – Any area of a product expected to touch food (e.g. the inside of a cooler) must be constructed of materials which meet FDA requirements for food contact. Materials used in food contact surfaces should also not contain BPA.
- 6.6. Phthalates** -The use of materials containing compounds identified as Phthalates (DBP, BBP, DEHP, DNOP, DIDP, DINP and DnHP) shall be restricted. Soft plastic parts, coatings and TPR materials used in this product must be tested and certified that the concentration of any identified PAH is less than 1000 PPM.
- 6.7. PVC** – PVC should not be used as a material if alternative materials are available. If no alternatives can be identified, the PVC must be free from phthalates and lead.

7. Quality Criteria

- 7.1.** An inspection plan/checklist will be provided to identify the applicable quality characteristics and acceptance criteria that Igloo will use to determine "Meet Spec" or "Does Not Meet Spec" at production approval. This inspection plan will be used in conjunction to the engineering drawings for product qualification.

8. Critical Characteristics (*Essential to product safety or basic product function*)

- 8.1.** Product must pass all material & regulatory requirements.
- 8.2.** Packaging must be complete and correct.
- 8.3.** Assembly must meet the specified assembly requirements without deviation.

9. Major Characteristics (*Significantly reduces product utility*)

- 9.1.** Product must pass IP56 (dust/water) testing.
- 9.2.** Product includes the correct image
- 9.3.** Packaging cannot be incomplete or incorrect
- 9.4.** Product shall be free from scratches, marks and dents

10. Minor Characteristics (*Cosmetic flaw that does not reduce the utility of the product*)

- 10.1.** Packaging is dirty
- 10.2.** Product is dusty
- 10.3.** Product colors are incorrect
- 10.4.** Product has scuffs, scratches or scrapes.
- 10.5.** Product has excessive pitting and/or porosity

11. Product Compliance :

- 11.1.** BQB testing for Blue-Tooth 5.0
- 11.2.** FCC ID for FCC Part 15C-2010
- 11.3.** ROHS to EU Standards

FCC Statement:

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: 1) this device may not cause harmful interference, and 2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try correct the interference by one or more of the following measures:

- Reorient the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.