

## TEST REPORT

Test Report # 23W-008734(A2) Date of Report Issue: July 26, 2023  
Date of Sample Received: June 19, 2023 Pages: Page 1 of 8

### CLIENT INFORMATION:

Company: Polyconcept GBS  
Recipient: Kathy Lu  
Recipient Email: kathy.lu@polyconceptgbs.com



### SAMPLE INFORMATION:

Description: Arctic Zone® Titan Thermal HP® Copper Tumbler 20oz  
Article No.: 1625-66GY/1625-66BK/  
1625-66WH/1625-66NY/  
1625-66SL/1625-66BKRD Purchase Order Number: 1934709/1934705/  
1935103  
Factory No.: 10942 Toy Co./Agency: -  
Vendor No.: 10531 Country of Origin: China  
Country of Distribution: Canada, United States Labeled Age Grade: -  
Quantity Submitted: 6 pcs per style Requested Age Grade: -  
Testing Period: 07/18/2023-07/24/2023, Tested Age Grade: -  
07/25/2023-07/26/2023

### OVERALL RESULT:

**INFORMATION ONLY**

Please refer to the following pages for test result summary and appropriate notes.

QIMA (HANGZHOU) TESTING CO., LTD.

Ada Guo

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Assist Physical Laboratory Manager



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Test(s) marked with 'φ' was subcontracted to external laboratory.

The test result(s) and conclusion(s) in this report relate only to the sample(s) as received and method /regulation section(s) tested as described herein.

If it is not further specified in the report, the decision rule for stating conformity is based on the QIMA decision rule

(<https://www.qima.com/conditions-of-service#decisionRule>).

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## TEST RESULTS SUMMARY:

At the request of the client, the following tests were conducted:

CONCLUSION	TEST(S) CONDUCTED
Information only	Client-Performance Requirements-Cold Retention Test
Information only	Client-Performance Requirements-Heat Retention Test



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**DETAILED RESULTS:**

**Client-Performance Requirements-Cold Retention Test**

Test Method: The products were conditioned at 72°F for 1 minutes. The products were then filled with ice cube as much as the container can fit in. Fill the product to its normal capacity of 60 °F water, insert thermocouple, and the lid was screwed hand-tight. The temperature was measured in °F at every 1 minutes until the temperature reaches 40°F, the amount of time to change from 32°F to 40°F was recorded in Table 1.

Specimen	Style
	Arctic Zone® Titan Thermal HP® Copper Tumbler 20oz
Black style	21h09mina
Red style	19h28mins
Blue style	20h06mins

Table 1



**DETAILED RESULTS:**



Graph 1 - Cold Retention of Arctic Zone® Titan Thermal HP® Copper Tumbler 20oz



**DETAILED RESULTS:**

**Client-Performance Requirements-Heat Retention Test**

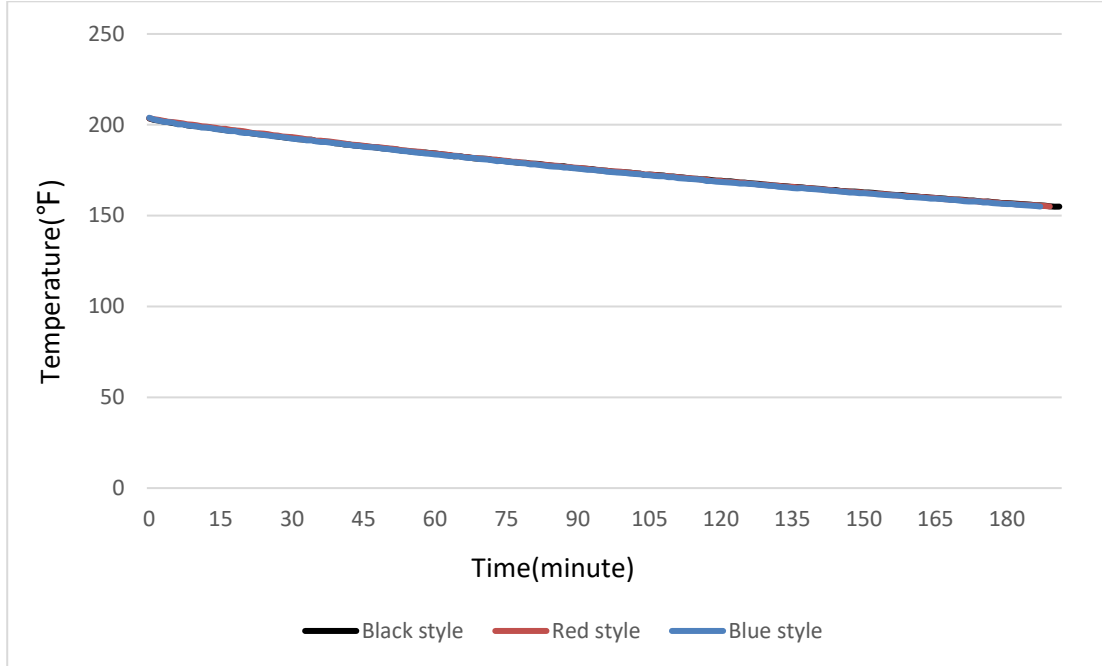
Test Method: Pour boiling water into the container (to a height of approximately 1 inch under the rim). Temperature measurement was then taken and the lid screwed on hand-tight. The temperature is measured in °F at every 1 minute until the temperature reaches 155°F, the amount of time to drop from the initial temperature to 155°F was recorded in Table 2.

Specimen	Style
	Arctic Zone® Titan Thermal HP® Copper Tumbler 20oz
Black style	3h11mins
Red style	3h09mins
Blue style	3h07mins

Table 2



**DETAILED RESULTS:**



Graph 2 - Heat Retention of Arctic Zone® Titan Thermal HP® Copper Tumbler 20oz



**SAMPLE PHOTO:**



**SAMPLE PHOTO:**



-End Report-

