



**PRECISION TESTING LABORATORIES, INC.**

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**Laboratory Report No.** 21701 A  
20-May-14

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Jay Bags, Inc.  
55 Union, Suite 103  
Spring Valley, NY 10977

Cc: n/a

**Item:** One (1) sample of thermal bags

**Identification:** Jay Bags Hot or Cold - The Magic Insulated Bag - #50376 00183  
Outside Dimensions (Approximately): 14" Length x 11" Height


**Purpose:** Thermal Properties Testing - Cold


Test, Unit of Measure	Specimen Results																																																						
<b>Thermal Properties Testing - Cold</b>																																																							
<u>Test Procedure:</u>	1.) Place thermal bag sample in conditioned atmosphere of 70°F ± 2°F and 65% ± 2% RH for 24 hours prior to testing. 2.) Remove quantity five (5) Lean Cuisine® Simple Favorites Swedish Meatballs, 9 1/8 oz. frozen dinners from a freezer set at 5°F ± 2°F and place in one stack in the sample bag. 3.) Place a thermocouple from a Fluke Model 54 digital dual input data logger thermometer between the third and fourth dinner. 4.) Record and report the initial temperature and the temperature every 15 minutes for five hours. Report the temperature loss after 5 hours.																																																						
	<table><thead><tr><th data-bbox="592 1102 673 1129"><u>Minutes</u></th><th data-bbox="755 1102 917 1129"><u>Temperature (°F)</u></th></tr></thead><tbody><tr><td data-bbox="592 1129 673 1157">0 (Initial)</td><td data-bbox="803 1129 852 1157">7.0</td></tr><tr><td data-bbox="609 1157 641 1184">15</td><td data-bbox="803 1157 852 1184">10.2</td></tr><tr><td data-bbox="609 1184 641 1211">30</td><td data-bbox="803 1184 852 1211">12.6</td></tr><tr><td data-bbox="609 1211 641 1239">45</td><td data-bbox="803 1211 852 1239">14.3</td></tr><tr><td data-bbox="609 1239 641 1266">60</td><td data-bbox="803 1239 852 1266">16.0</td></tr><tr><td data-bbox="690 1239 771 1266">(1 Hour)</td><td></td></tr><tr><td data-bbox="609 1266 641 1293">75</td><td data-bbox="803 1266 852 1293">17.6</td></tr><tr><td data-bbox="609 1293 641 1320">90</td><td data-bbox="803 1293 852 1320">18.7</td></tr><tr><td data-bbox="609 1320 641 1348">105</td><td data-bbox="803 1320 852 1348">19.8</td></tr><tr><td data-bbox="609 1348 641 1375">120</td><td data-bbox="803 1348 852 1375">20.7</td></tr><tr><td data-bbox="690 1348 771 1375">(2 Hours)</td><td></td></tr><tr><td data-bbox="609 1375 641 1402">135</td><td data-bbox="803 1375 852 1402">21.5</td></tr><tr><td data-bbox="609 1402 641 1430">150</td><td data-bbox="803 1402 852 1430">22.2</td></tr><tr><td data-bbox="609 1430 641 1457">165</td><td data-bbox="803 1430 852 1457">22.8</td></tr><tr><td data-bbox="609 1457 641 1484">180</td><td data-bbox="803 1457 852 1484">23.3</td></tr><tr><td data-bbox="690 1457 771 1484">(3 Hours)</td><td></td></tr><tr><td data-bbox="609 1484 641 1512">195</td><td data-bbox="803 1484 852 1512">23.7</td></tr><tr><td data-bbox="609 1512 641 1539">210</td><td data-bbox="803 1512 852 1539">24.2</td></tr><tr><td data-bbox="609 1539 641 1566">225</td><td data-bbox="803 1539 852 1566">24.6</td></tr><tr><td data-bbox="609 1566 641 1593">240</td><td data-bbox="803 1566 852 1593">24.9</td></tr><tr><td data-bbox="690 1566 771 1593">(4 Hours)</td><td></td></tr><tr><td data-bbox="609 1593 641 1621">255</td><td data-bbox="803 1593 852 1621">25.3</td></tr><tr><td data-bbox="609 1621 641 1648">270</td><td data-bbox="803 1621 852 1648">25.8</td></tr><tr><td data-bbox="609 1648 641 1675">285</td><td data-bbox="803 1648 852 1675">26.0</td></tr><tr><td data-bbox="609 1675 641 1703">300</td><td data-bbox="803 1675 852 1703">26.3</td></tr><tr><td data-bbox="690 1675 771 1703">(5 Hours)</td><td></td></tr></tbody></table> <p data-bbox="576 1711 966 1753"><b>Temperature increased 19.3°F in 5 hours</b></p>	<u>Minutes</u>	<u>Temperature (°F)</u>	0 (Initial)	7.0	15	10.2	30	12.6	45	14.3	60	16.0	(1 Hour)		75	17.6	90	18.7	105	19.8	120	20.7	(2 Hours)		135	21.5	150	22.2	165	22.8	180	23.3	(3 Hours)		195	23.7	210	24.2	225	24.6	240	24.9	(4 Hours)		255	25.3	270	25.8	285	26.0	300	26.3	(5 Hours)	
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**Report Revision Notification:**

Report 21701 dated 5/19/14 has been changed to Report 21701 A for the following reason: After the initial report was issued the "Hours" designation was added to the test results.

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Signed:   
Don G. Roney, Laboratory Manager

Signed:   
Suzanne Piispanen, COO