

QUALITY ASSURANCE SERVICES AND EQUIPMENT

**Test Report for:** Microwavable Heat Packs

**Lab Sample Ref:** HB80215

**Product Code:** HCP1085

**Standard used:** AS/NZS 5116:2016

<b>KEY</b>	Stdy. = when reading is steady
F1 = Filling location 1	S1 = Surface location 1
F2 = Filling location 2	S2 = Surface location 2

**CLAUSE 4.2.3.1 and CLAUSE 4.2.3.2 - TEST RESULTS - BAG 1**

Clause 4.2.3.1 / Appendix B: Filling material heat resistance, Clause 4.2.3.2 / Appendix B: Surface heat resistance

Nominal weight: 600g      Actual weight: 621.87g

**Temperature readings (°C) after the manufacturer's recommended maximum heating time:**

	Filling		Surface	
	F1	F2	S1	S2
Pocket 1	44.5	52.5	40.2	44.4
Pocket 2	49.4	54.0	43.5	48.3

	Filling		Surface	
	F1	F2	S1	S2
Pocket 3	n/a	n/a	n/a	n/a
Pocket 4	n/a	n/a	n/a	n/a

The filling material DID NOT exceed a temperature of 70°C.      The surface DID NOT exceed a temperature of 50°C.

The filling material and surface material DID NOT show any signs of ignition or discolouration.

The filling material and surface DID NOT show any deformity, textile melting, flame, dust, smoke, smouldering, smells, fumes, or other observations that cause concern.

The condition of the MHP at the end of testing was normal.

**Temperature readings (°C) after overheating (4 consecutive cycles):**

	Time											Probe / location
	Stdy.	30s	60s	90s	120s	150s	180s	210s	240s	270s	300s	
Pocket 1	148.1	144.7	130.2	126.1	121.7	116.8	113.1	109.8	107.5	105.9	104.2	F1
Pocket 2	127.5	125.8	113.7	110.9	108.1	105.0	102.5	98.8	97.1	94.7	93.2	
Pocket 3	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
Pocket 4	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
Pocket 1	106.9	102.3	92.2	87.9	85.0	81.9	79.5	76.3	74.9	70.4	67.9	F2
Pocket 2	153.5	148.8	135.4	131.6	127.8	123.3	118.8	115.3	111.7	108.9	107.1	
Pocket 3	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
Pocket 4	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
Pocket 1	88.2	88.1	78.5	76.6	68.6	66.0	61.7	58.9	56.6	52.0	51.6	S1
Pocket 2	90.1	87.2	80.8	80.7	71.2	68.9	66.6	65.3	62.1	61.4	59.6	
Pocket 3	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
Pocket 4	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
Pocket 1	99.9	95.7	72.3	68.7	61.7	61.5	60.0	59.1	52.5	50.3	50.3	S2
Pocket 2	107.5	90.2	88.9	82.5	76.9	76.0	74.6	69.8	69.7	66.2	64.7	
Pocket 3	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
Pocket 4	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	

DID NOT display a rise in temperature.      DID NOT show any signs of ignition or discolouration.

DID NOT show any deformity, textile melting, flame, dust, smoke, smouldering, smells, fumes, or other observations that cause concern.

The condition of the MHP at the end of testing was normal.