MSL Baking Instruction

Customer Quality Engineering
December, 2011
CAUTION
This bag contains
MOISTURE-SENSITIVE DEVICES

1. Shelf life in sealed bag: 36 months at < 40°C and < 90% relative humidity (RH)

2. After this bag is opened, devices that will be subjected to convection reflow, or equivalent processing (peak package body temperature of 220°C) must be:
   a) Mounted within 1 year at factory conditions of ≤ 30°C/60% RH, or
   b) Stored at ≤ 10% RH

3. Devices require baking before mounting if:
   a) Humidity indicator card shows humidity > 60% when measured at 23°C ± 5°C, or
   b) Condition 2a or 2b is not met.

4. If baking is required, devices may be baked for:
   a) 12 hours at 125°C +/- 5°C for high-temperature device containers.
   b) Baking at 40°C +/-5°C /-0°C and <5%RH for low-temperature device containers is NOT RECOMMENDED.

Bag Seal Date (MM/DD/YY): _____________________

Note: LEVEL defined by IPC/JEDEC J-STD-020
CAUTION
This bag contains MOISTURE-SENSITIVE DEVICES

1. Shelf life in sealed bag: 36 months at < 40°C and < 90% relative humidity (RH)

2. After this bag is opened, devices that will be subjected to convection reflow, or equivalent processing (peak package body temperature of 220°C) must be:
   a) Mounted within **168 hours** at factory conditions of ≤ 30°C/60% RH, or
   b) Stored at ≤ 10% RH

3. Devices require baking before mounting if:
   a) Humidity indicator card shows humidity > 10% when measured at 23°C ± 5°C, or
   b) Condition 2a or 2b is not met.

4. If baking is required, devices may be baked for:
   a) **12 hours** at 125°C ± 5°C for high-temperature device containers.
   b) Baking at 40°C ±5°C /-0°C and <5%RH for low-temperature device containers is **NOT RECOMMENDED**.

Bag Seal Date (MM/DD/YY): _____________________

Note: LEVEL defined by IPC/JEDEC J-STD-020
CAUTION

This bag contains
MOISTURE-SENSITIVE DEVICES

1. Shelf life in sealed bag: 36 months at < 40°C and < 90% relative humidity (RH)

2. After this bag is opened, devices that will be subjected to convection reflow, or equivalent processing (peak package body temperature of 220°C) must be:
   a) Mounted within 72 hours at factory conditions of ≤ 30°C/60% RH, or
   b) Stored at ≤ 10% RH

3. Devices require baking before mounting if:
   a) Humidity indicator card shows humidity > 10% when measured at 23°C ± 5°C, or
   b) Condition 2a or 2b is not met.

4. If baking is required, devices may be baked for:
   a) 12 hours at 125°C ± 5°C for high-temperature device containers.
   b) Baking at 40°C ± 5°C ± 0°C and <5%RH for low-temperature device containers is NOT RECOMMENDED.

Bag Seal Date (MM/DD/YY): _____________________

Note: LEVEL defined by IPC/JEDEC J-STD-020
CAUTION

This bag contains MOISTURE-SENSITIVE DEVICES

Level 5a

1. Shelf life in sealed bag: 36 months at < 40°C and < 90% relative humidity (RH)

2. After this bag is opened, devices that will be subjected to convection reflow, or equivalent processing (peak package body temperature of 220°C) must be:
   a) Mounted within **24 hours** at factory conditions of ≤ 30°C/60% RH, or
   b) Stored at ≤ 10% RH

3. Devices require baking before mounting if:
   a) Humidity indicator card shows humidity > 10% when measured at 23°C ± 5°C, or
   b) Condition 2a or 2b is not met.

4. If baking is required, devices may be baked for:
   a) **12 hours** at 125°C +/- 5°C for high-temperature device containers.
   b) Baking at 40°C +/-5°C /-0°C and <5%RH for low-temperature device containers is **NOT RECOMMENDED**.

Bag Seal Date (MM/DD/YY): _____________________

Note: LEVEL defined by IPC/JEDEC J-STD-020
Moisture Caution Label – MSL 6

CAUTION

EXTREMELY MOISTURE-SENSITIVE DEVICES

1. These devices, if subjected to convection reflow, or equivalent processing (peak package body temperature of $220^\circ$C), must be baked before mounting for:

   a) 12 hours at $125^\circ$C ± 5°C for high-temperature device containers.
   b) Baking at $40^\circ$C ±5°C/-0°C and <5%RH for low-temperature device containers is NOT RECOMMENDED.

2. After baking, devices must be mounted within 6 hours at factory conditions of $\leq 30^\circ$C/60%RH.

Bag Seal Date
(MM/DD/YY): __________________________

Note: LEVEL defined by IPC/JEDEC-STD-020