

## **NMFC Item 258 & UCC Rule 40 Updated**

The specifications for Injection Molded Plastic Open Head Pails have been updated in:

### **National Motor Freight Classification (NMFC) Item-258**

- Approved August 1999

### **Uniform Freight Classification (UFC) Rule 40**

- Approved September 1999

## **Drop Test Requirements**

- Sample Size: 6 Samples
- Pre-Conditioning: 0° (-18°C)
- Fill Level:
  - Solids: Filled to gross mass at marked capacity
  - Liquids: Filled to marked capacity
- Fill Material:
  - Solids: Material that is similar to commodity
  - Liquids: Antifreeze solution
- Drop Orientation:
  - Samples 1-3: Flat on Side
  - Samples 4-6: Flat on Bottom
- Drop Height:
  - Solids or Liquids < 1.2 SG: 0.8 meters (31.5")
  - Liquids > 1.2 SG:  $SG \times 0.667 = \text{Drop Ht (meters)}$
- Pass/Fail Criteria: For pails containing liquid, a loss of a few drops through the closure or gasket area at impact is not to be considered failure if 5 minutes after dropping, the pails are rolled for a distance equal to twice its circumference, and no further leakage occurs. Otherwise, leakage or sifting out of contents constitutes failure.

## **Stack Test Requirements**

- Sample Size: 3 Samples
- Pre-Conditioning: 73°F (23.0°C)

- Test Condition: 73°F (23.0°C)
- Fill Level:
  - Solids: Filled to gross mass at marked capacity
  - Liquids: Filled to marked capacity
- Fill Material:
  - Solids: Material that is similar to commodity
  - Liquids: Water
- Top Load: Load based on:  $L = [(118 / H) - 1] \times W \times 1.5$ 
  - L = Required Top Load (Lbs)
  - H = Height of a Single Container (Inches)
  - W = Gross Weight of Container (Lbs) With a Maximum Load of 600 Lbs (272 Kg)
- Test Duration: 48 Hours
- Maximum Deflection: No greater than 5% of the original height of the container
- Time Between Removal of Load & Inspection: 30 Minutes
- Pass / Fail Criteria: No signs of collapse or instability, and the vertical deflection of the containers, measured while they are under load, shall not exceed 5% of the original height of the container. Additionally, none of the containers may leak when they are placed on their sides.

**In addition to the changes to the performance requirements, the definitions and documentation requirements have also been expanded in the updated specifications.**