

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.