



ASTM D3078 Vacuum Leak Test for Flexible Packaging

The ASTM D3078 Vacuum Leak Test for Flexible Packaging is manufactured and exported by Burhani Engineering Technology. This test involves using a Leak Test Chamber specifically designed by Burhani Engineering Technology to evaluate flexible packages for leaks, following the stringent guidelines of ASTM D3078 international standards.



The objective of this text is to provide viewers with a comprehensive understanding of ASTM D3078 and its crucial role in the packaging industry. It highlights the importance of detecting leaks to ensure the integrity of the product is maintained throughout its lifecycle. The equipment required for conducting this test includes various types of plastic flexible packaging, a Vacuum Leak Test Chamber compliant with ASTM D3078 standards, and water, which is used as the liquid medium during testing.

During the testing process, two key parameters will be evaluated: the point of total failure and the occurrence of leaks at different vacuum levels. These parameters are critical in assessing the robustness and reliability of the packaging. To test the maximum vacuum level that a flexible package can withstand, the package will be subjected to gradually increasing vacuum pressures until it fails. This approach helps determine the package's durability under extreme conditions.

Conducting multiple tests is essential for obtaining more reliable results. This process allows for a thorough evaluation of the flexible packaging's integrity by accounting for various potential points of failure. Once the vacuum level at which the package ultimately fails is identified, the next step is to check for leaks. Detecting leaks at this stage is crucial for understanding the package's weaknesses and areas that may require improvement.

It is recommended to subject flexible packages to different vacuum levels during testing. This ensures that all possible points of failure are identified and addressed, providing a comprehensive assessment of the package's durability. Leaks may be detected at different vacuum levels, such as -100 millibar or -200 millibar. To ensure a thorough examination, the package should be held at each vacuum level for at least 30 seconds, allowing sufficient time for any leaks to become apparent. If no leaks are detected at a given vacuum level, the vacuum should be increased to the next level, and the process should be repeated. This procedure continues until all required vacuum levels have been tested, ensuring that the package is thoroughly evaluated.

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<p style="text-align: center; background-color: #003366; color: white; padding: 2px;">Wet Test - Flexible Packages</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p style="background-color: red; color: white; padding: 5px; border: 1px solid black;">Select D3078</p> <p style="background-color: red; color: white; padding: 5px; border: 1px solid black;">Go To D3078 SCREEN</p> </div> <div style="text-align: center;">  <p style="background-color: red; color: white; padding: 5px; border: 1px solid black;">Select F2096</p> <p style="background-color: red; color: white; padding: 5px; border: 1px solid black;">Go To F2096 SCREEN</p> </div> </div>	<p style="text-align: center; background-color: #003366; color: white; padding: 2px;">DRY TEST - BOTTLES, CONTAINERS AND CAPS</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p style="background-color: red; color: white; padding: 5px; border: 1px solid black;">Select D5094</p> <p style="background-color: red; color: white; padding: 5px; border: 1px solid black;">Go To D5094 SCREEN</p> </div> </div>
<p style="text-align: center; background-color: #003366; color: white; padding: 2px;">WET TEST - RIGID BOTTLES, CONTAINERS AND CAPS</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p style="background-color: red; color: white; padding: 5px; border: 1px solid black;">Select D4991</p> <p style="background-color: red; color: white; padding: 5px; border: 1px solid black;">Go To D4991 SCREEN</p> </div> </div>	<p style="text-align: center; background-color: #003366; color: white; padding: 2px;">ALTITUDE TEST</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p style="background-color: red; color: white; padding: 5px; border: 1px solid black;">Select D6653</p> <p style="background-color: red; color: white; padding: 5px; border: 1px solid black;">Go To D6653 SCREEN</p> </div> </div>

Leak detection plays a crucial role in ensuring the safety, quality, and shelf life of products, particularly in industries such as food and pharmaceuticals. Identifying and addressing leaks is vital to prevent contamination, spoilage, and potential exposure to harmful bacteria. To ensure the integrity of the package seals, it is important to check the quality of the plastic, adjust temperature settings appropriately, perform regular maintenance on the sealing jaws, and clean the jaws to remove any dust particles that could compromise the seal.

In conclusion, ensuring leak-free packaging is essential for the safety of products, especially in sensitive industries like food and pharmaceuticals. Even a small leak can lead to significant issues, including contamination, spoilage, and exposure to harmful bacteria, making leak detection a critical aspect of packaging quality control.

Vacuum Leak Tester – Cylinder – 5 mm and 10 mm thickness



Model No	Capacity Gallon	Capacity Litres	Size (cm) Dia x Height
BHFGC2060	5	18	20x60
BHFGC2530	4	15	25x30
BHFGC2560	8	30	25x60
BHFGC3030	5.5	21	30x30
BHFGC3060	11	42	30x60
BHFGC4030	10	38	40x60
BHFGC4060	20	76	40x60
BHFGC4530	13	48	45x30
BHFGC4560	26	96	45x60
BHFGC5060	31	118	50x60
Custom Sizes Manufactured on Demand			

Vacuum Leak Tester - Cube



Model No	Capacity Gallon	Capacity Litres	Size Inches
BHFGCB080606	1.2	4.5	8x6x6
BHFGCB110808	3	12	11x8x8
BHFGCB141010	6	21	14x10x10
BHFGCB181210	10	36	18x12x10
BHFGCB201413	16	60	20x14x13
BHFGCB242015	31	118	24x20x15
BHFGCB302016	41	157	30x20x16
BHFGCB322620	72	272	32x26x20
Custom sizes available on Demand			