

ULTIMUS® FILM: THE NEXT GENERATION OF SINGLE-USE FILM

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Single-use technologies are used in different operations throughout biomanufacturing including mixing, storage, and transportation. Benefits include next-level speed, flexibility, and efficiency; however, unintended damage to single-use containers can create new challenges in the process of solving old ones. The integrity of the film used in single-use, bioprocessing assemblies is critical to maintaining product quality, sterility, and reliable manufacturing operations as well as preventing material loss and avoiding facility downtime.

Ultimus® film is an innovative technology designed to meet the needs of more challenging single-use applications such as large-volume liquid processing. Ultimus® film is made of a layered polymer structure which makes it highly resistant to damage and addresses the integrity issues frequently encountered with conventional films. Specifically, Ultimus® film's novel woven nylon structure provides the strength and robustness needed for single-use bioprocessing applications.

When compared to the average results of five commercially available bioprocessing single-use films tested, Ultimus® film demonstrated significant improvement in performance. This superior performance has been demonstrated through ASTM film strength and robustness tests. Internal tests for Mobius® bag assembly structure (burst container) and other practical examinations of film performance were also executed to demonstrate Ultimus® film's strength and durability. These qualities of the Ultimus® film are essential to support bag installation, handleability, durability, and overall container integrity. This resilient film reduces risk and enables more efficient single-use manufacturing operations.