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Merck introduces Ultimus Film for leak resistance in single-use assemblies

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Cutting-edge technology now available in Mobius 3D process containers



Merck has announced the launch of its Ultimus Single-Use Process Container Film, designed to provide extreme durability and leak resistance for single use assemblies used for bioprocessing liquid applications.

Bag leaks have long been a top pain point for biomanufacturers, with the cost of a single leak ranging from € 45,000 to € 511,000. To protect against such leaks, abrasions, tears, and material fatigue, Ultimus film is designed with a proprietary woven nylon structure and provides enhanced bag strength, improved durability, and resilience.

Maintaining the film's integrity is crucial to ensure product quality, sterility, and reliable manufacturing operations in single-use bioprocessing. To achieve this, Ultimus film has undergone rigorous testing and demonstrated exceptional performance compared to the average results of five other single-use bioprocessing films. This includes 10 times greater abrasion resistance, 2.8 times greater tensile strength, and twice as much puncture strength.

Ultimus film provides an animal origin free contact resin that demonstrates a low extractable profile and supports healthy cell growth performance. This cutting-edge technology is now available in Mobius 3D process containers, delivering a stronger and more durable solution that improves operational efficiency while minimising disruptions.