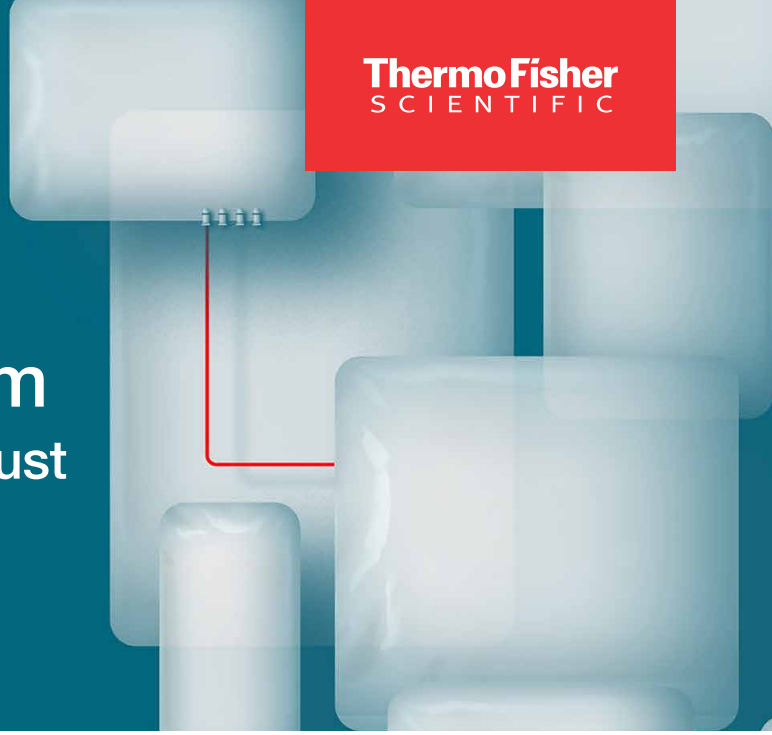


Aegis bioprocessing film

Quality and reliability you can trust

Bioprocessing

The cornerstone of single-use technologies is reliable film for your bioprocessing containers (BPCs). Thermo Scientific™ Aegis™ film is designed to support healthy cell growth and provide the ideal balance of strength and flexibility to help meet your upstream and downstream needs.

Superior reliability and biocompatibility, backed by decades of experience

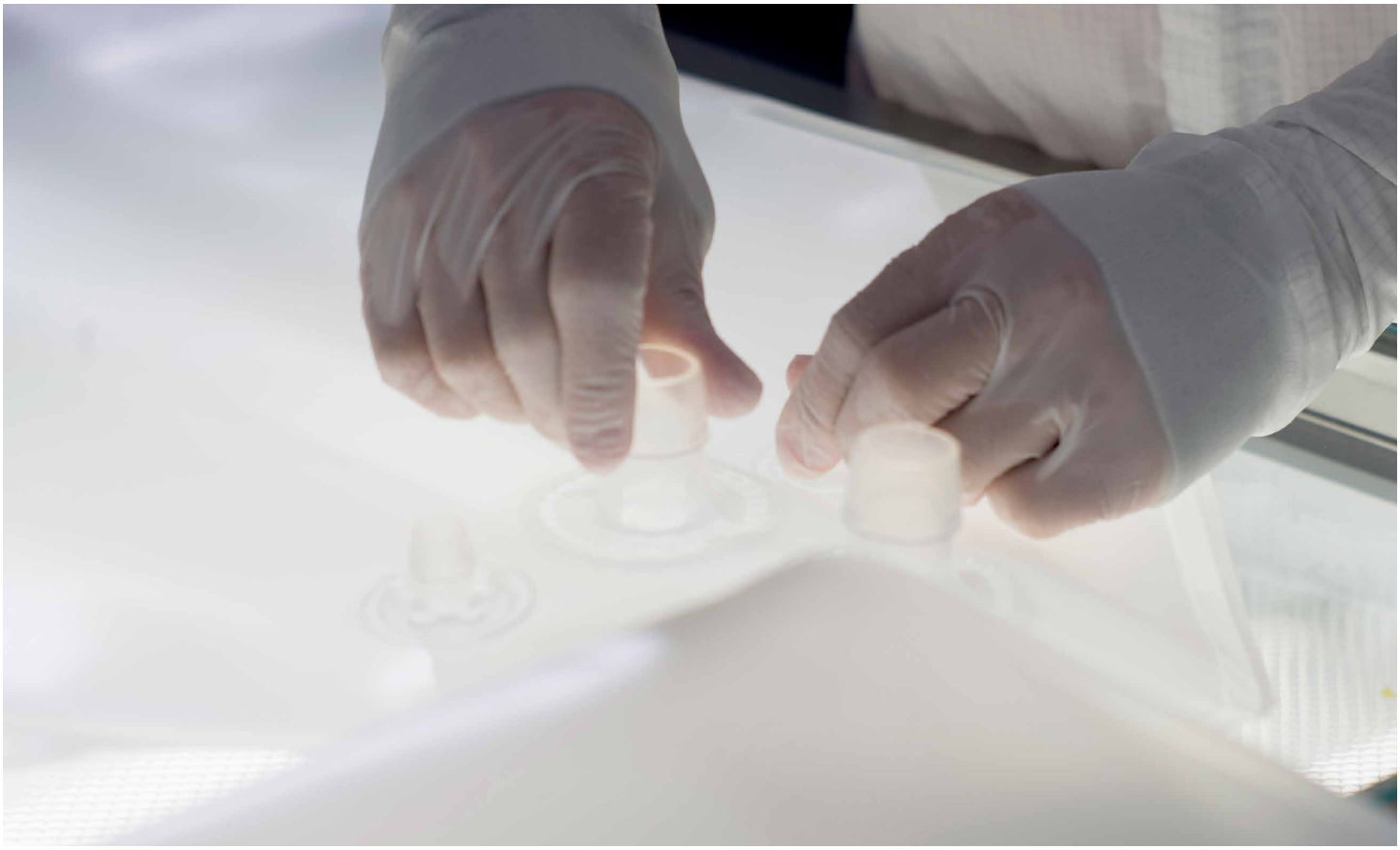
- **Exceptional strength and leak resistance to minimize product loss**—a 0.01% leak rate that outperforms the industry averages
- **Demonstrated biocompatibility and low cytotoxicity to support healthy cell growth**—the fluid contact layer is free of Irgafos™ 168 stabilizer, which has been shown to affect cell growth with certain cell clones
- **Low leachable and extractable profiles to support end-product purity and quality**—extensive leachable and extractable analysis is performed, aligning with current BioPhorum Operations Group (BPOG) guidelines
- **No PFAS**—there are no per- and polyfluoroalkyl substances (PFAS), also known as forever chemicals, in Aegis films

Aegis film is engineered to meet the most demanding requirements of your bioproduction processes.

Advanced manufacturing for superior quality

- **Quality and reliability**—we have spent decades optimizing our processes and have developed advanced manufacturing techniques that are purpose-designed, custom-built, and focused on process improvement
- **Backed by data**—to enable consistent product quality, we proactively collect hundreds of data points to independently monitor methods for statistical process control (SPC) of critical process parameters, which are specific to customer needs and requirements
  - These critical parameters include temperature, time, or pressure, and enable us to identify potential product issues before they can occur
  - By utilizing SPCs, we enable consistent quality throughout the product lifecycle

Combined with our state-of-the-art manufacturing capabilities, Aegis film provides consistent quality and unparalleled leak integrity.



Simplified user experience

- **Versatile**—Aegis film is versatile and can be used with applications across the workflow, from mixing and holding process liquids to media bags and housing for cell culture
  - Gibco™ media and supplements are available in bioprocessing containers made with Aegis film
- **Efficient**—using a consistent film across the workflow allows you to save time with a simplified validation and qualification experience
- **Scalable**—your scale-up needs are supported with bioprocessing container bags available from 50 mL to 5,000 L
- **Supply assurance**—our excellent lead times are enabled by having the largest single-use manufacturing network—with in-region manufacturing—that flexes with market demand
- **Expertise**—you will get our partnership and expertise across your workflow to support optimizing your process

Aegis film provides customers with a wide range of benefits—from scalability to network-wide consistency you can trust.

Thoughtfully designed physical properties for exceptional quality, purity, and biocompatibility

- **Polyester**—a gas-permeable layer provides strength and resistance to abrasion and wear
- **Tie**—to bind dissimilar layers together
- **EVOH**—this gas barrier prevents oxygen from being transmitted through the film and supports liquid stability
- **PE**—an inert product contact layer with low extractables helps prevent liquid from being affected by the film

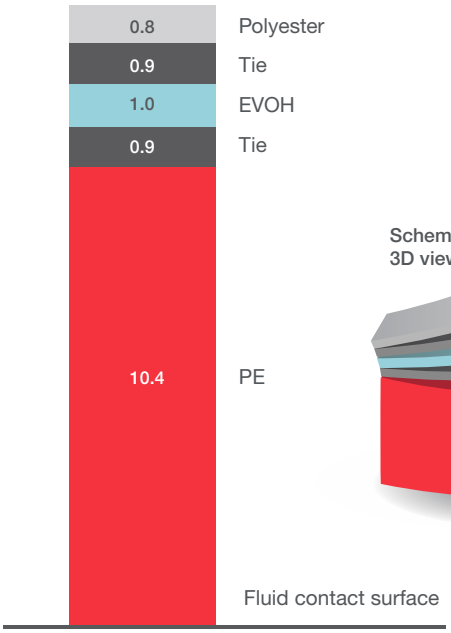
Low extractables

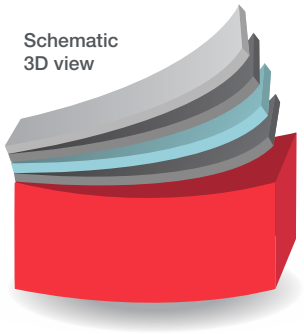
Broad chemical compatibility

Flexibility and toughness for your most demanding applications

Schematic cross-section

Aegis film





Discover the difference with Aegis film at
thermofisher.com/bioprocessingfilms