

DuPont™ Liveo™ Pharma Molded Assemblies complete single-use bag assembly

Case study: Silicone molded assemblies deliver purity in Entegris' Aramus™ single-use bag assemblies used in COVID-19 vaccine production

Cold chain vaccine demands present opportunity for collaboration

Amid the race to produce COVID-19 vaccines, DuPont™ Liveo™ Healthcare Solutions have been selected by manufacturers around the world for their purity and reliability. From being used in the collection of buffer and active prior to COVID-19 vaccine filtration to being employed in single-use vaccine systems, Liveo™ solutions have made an impact in the global fight against the COVID-19 pandemic.

Entegris, Inc. – a global leader in advanced materials science, specializing in liquid systems that dispense, control, analyze or transport process fluids – needed a custom overmolded assembly to complete its Aramus™ single-use bag assembly. With low extractables and leachables and a wide operating-temperature range, the proprietary single-use bags were ideal for cold chain collection and storage. Due to the extremely low temperatures required to preserve the vaccines, the bags were being used to store and bulk-ship many COVID-19 vaccines.

The DuPont Healthcare team collaborated with Entegris to develop a high-quality custom overmolded assembly that would consider both the end-user's requirements and a design that promoted ease of manufacture. In addition to delivering a high-quality product, the teams wanted to ensure reliable supply – a consideration that was of paramount importance in Entegris' selection of DuPont as a material supplier. The finalized assembly uses Liveo™ Pharma Tubing – known for its purity – along with the Aramus™ single-use bags.



This display model shows how the single-use bag, tubing and connectors can be joined to form a unified assembly. Aramus™ single-use bags from Entegris and Liveo™ Pharma Tubing from DuPont can be custom-assembled based on the end-user's specific needs.

Because the bag assemblies, tubing and connectors can be adapted to a number of single-use system configurations, the Aramus™ single-use bag assemblies with Liveo™ Pharma Tubing offer a flexible and dependable choice for cold bioprocessing applications, which is critical during the rapid increase in demand for assemblies to support vaccine production.

Made to order for ultrapure fluid transfer applications



Produced with DuPont™ Liveo™ Pharma Tubing and Liveo™ BioMedical Grade LSR at the DuPont Healthcare Industries Materials Site (HIMS) in Michigan, USA, silicone-based Liveo™ Pharma Molded Assemblies for high-purity fluid transfer help the biopharmaceutical industry simplify manufacturing, improve process efficiency and flexibility, and reduce cross-contamination risk and cleaning costs.

Liveo™ Pharma Molded Assemblies can be customized to customer needs and applications and also are available in a variety of ready-to-use configurations.

Liveo™ Pharma Molded Assemblies:

- Improve productivity
- Reduce cleaning costs
- Reduce risk of contamination
- Enhance performance in fluid transfer applications
- Reduce in-house assembly and setup time and costs
- Contain no peroxide by-products, chlorophenyls or PCBs
- Contain no added organic plasticizers, phthalates or latex components
- Are manufactured to principles of U.S. FDA 21 CFR 210/211 GMPs for pharmaceutical products



To learn more about DuPont™ Liveo™ Healthcare Solutions, visit liveo.dupont.com.



Smarter Healthcare.
Positive Patient Outcomes.

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