

**First-class quality based
on maximum purity**

CleanFlex® cleanroom packaging



Our individual solutions for high-purity product protection

With our CleanFlex® cleanroom packaging and films, you are opting for safe, low-particle and low-germ product solutions that provide optimum protection for your sensitive and highly sensitive filling goods. One hundred percent in-house production on ultra-modern extrusion,

printing and converting equipment in a clean room class 5 at rest, qualified in accordance with DIN EN ISO 14644-1, guarantees complete traceability from the granulate to the end product.

Absolute cleanliness is a basic demand of product quality – this must be unreservedly guaranteed! The requirement defined for our products is therefore “outstanding quality with maximum reliability and optimum usage.” We wish both to satisfy our customers and to thrill them with products of the very highest quality.

ISO 5 Cleanroom production

With our class 5 clean room production facilities in accordance with DIN EN ISO 14644-1 at rest, we offer low-germ and low-particle production of our packaging material, guaranteeing “safety via extremely pure quality.” Our specially trained and motivated production teams are supported by our internal laboratory and testing facilities. All production and quality-related processes are additionally oriented to GMP.

- + Low germ and low particle packaging.
- + Protection against external influences.
- + No contamination of your own Cleanroom.
- + Finished products retain the purity in which you have invested.

Use of CleanFlex® therefore ensures a high level of product safety and quality by adhering to the clean room chain from the start of production until the product

CleanFlex® product range



**Bags and
bag systems**



**Bottle-shaped
bags**



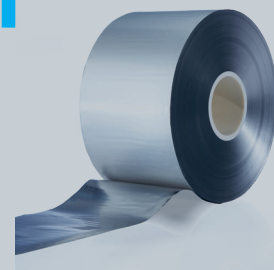
**Continuous Liner
Systems**



High-barrier bags



Gloves



**Films and
laminates**



Our advantages:

- + Clean room class 5 at rest production in accordance with DIN EN ISO 14644-1
- + Individual, low-particle and low-germ packaging for highly sensitive and fragile contents
- + More than 20 years of experience in clean room production and regulatory affairs management
- + Production in accordance with Good Manufacturing Practice (GMP)
- + Wide-ranging product portfolio
- + First-class product safety and purity
- + Use of EP/USP; FDA; LFGB-approved raw materials (according to the application)
- + Change control management

CleanFlex® Sterilizable packaging



**Tyvek® /HDPE
sterilizable bags**



Header bags



**Tyvek®
Sheets /Lids**

Microbiologically impermeable – but nevertheless breathable: the Tyvek® that we use is a nonwoven material from the DuPont™ brand which is extremely resilient and has a low dead weight. Packaging made from Tyvek® ensures water vapor permeability for sterilization while offering microbiological impermeability and extensive resistance to abrasion and aging at the same time.

- + Designed for steam or ETO sterilization processes.
- + Use of DuPont™ Tyvek®: durable, breathable nonwoven material
- + Ideal for stoppers, syringes, syringe nests, and syringe covers
- + Maintenance of the clean room chain from the start of production to delivery to the customer

Our cleanroom production capabilities

- + Extrusion of film
- + Printing of material
- + Cleaning and inspection of materials
- + Conversion of bags
- + Tailor-made finishing
- + Final protective packing



Product protection for a livable future

Sustainable product development. Shared commitment..

We are leading the way in the protection of our environment: We bring our innovativeness and feel for the market to bear in order to sustainably and proactively transform films and packaging. Our cleanroom packaging can be produced with reduced thickness, in recyclable variants. Together with you, we improve your

products' carbon footprint and optimize your environmental performance. We are committed to product-related environmental protection through the following measures, etc.:

Target of **zero waste**:

- + Reduction of raw material use
- + Reduction of film thicknesses
- + Minimization of start-up and production scrap

Circular economy:

- + Optimization of recyclability
- + Most extensive possible closure of the material cycle by improving the sorting of material flows
- + Development and focus on monomaterial solutions for maximum recyclability

Decarbonization:

- + Development of film alternatives with an optimized carbon footprint





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