



CleanFlex® Proteclen® antistatic PE film

The Bischof+Klein special antistatic film based on a non-migrating agent. Proteclen® in form of films or converted bags provides safe and clean solutions for products specifically for the pharmaceutical and medical industry. Proteclen® – the safety concept for sensitive products and processes.

CleanFlex® Proteclen® antistatic PE film – size range		
Туре	Width	Thickness
Minimum	300 mm	80 μm
Maximum	1,350 mm	150 μm

Antistatic properties

- · In accordance with DIN EN 62631; (annular electrodes, arrangement as per Figure 3)
- · Antistatic values as follows: Between > 10⁴ ohms and < 10¹¹ ohms at 23°C and 30 % relative humidity

Full traceability

- · IR spectrum as proof of material origin
- · Certificate of analysis for every production run
- · Full labeling of bundles and pallets
- · Documentation of entire process



Consistency of supply policy

- · Announcement of raw material changes 2 years prior to implementation
- · Strict change control procedures for process changes
- · Call-off orders and warehousing as options for contracted business



Regulatory compliance*

- · Base material resin Ph. Eur. Monograph 3.1.3.
- · Regulation (EU)10/2011 (most recent edition) food-approved
- · Compliant to FDA 21 CFR
- · 94 / 62 / EC and CONEG heavy metal declaration
- · EMA 410 / 01 regulation BSE / TSE statement
- * After ordering, official certificates / statements will be issued based on the individual material.



Sterilization options

- · Suitable for ethylene oxide gassing
- · Suitable for plasma sterilization
- · Suitable for E-beam sterilization
- · Suitable for gamma irradiation
- · Pre-irradiation can be arranged by Bischof+Klein
- · Certificate of irradiation can be provided



Certification and quality

- · IR spectrum of film
- · Dimensions and thickness
- · Seal strength
- · ISO 9001: 2015
- · ISO 15378: 2017



Laboratory options

- · Additional integrity testing
- · Additional age testing
- · Additional material testing
- · Additional analytical testing



Long-term stability analysis

· No change in physical properties (2 years)



Clean room production

- · Particle and biological monitoring in place
- · Qualification as per DIN ISO 14644-1 class 5, at rest:
- · Extrusion of film
- · Printing
- · Conversion
- · Bundling and packing



Tailor-made

- · Thickness from 80 150 µm
- · Flat film, tubular film, flat bags
- · Indicator labels for sterilization options

The client is responsible for the suitability of the products for their intended applications. The property values shown are based on a limited number of tests and therefore should not be construed as product specifications.