



## PowFlex® ffs eo premium powder packaging

PowFlex® ffs eo is an innovative additional version of the familiar PowFlex® Premium design. Each sack section is equipped with tear-open perforations for opening the sack and forming a pouring opening. An optional adhesive strip can be applied on the sack to close it after removing part of the product. As material on reels, PowFlex® ffs powder packaging is a proven alternative to converted sack packaging (10 – 50 kg). Form, fill, and seal – with one automatic packaging machine. The right solution for any powder!

### Fundamental advantages for you and your customers

- + FFS – forming, filling, and sealing in one operation for fine powders
- + Optimum protection of your products
- + Excellent ventilation during and after product filling
- + High machine outputs
- + Clean product filling
- + Unproblematic and efficient palletization
- + Low transport and storage volume
- + Various laminated materials possible
- + Attractive product presentation
- + Packaged in film – “secure in all kinds of weather”
- + Clean transport
- + Longer product shelf life
- + Packaging resealable after partial product removal
- + Simple and segregated packaging disposal
- + Use of recycled material possible

### Industries



**Agriculture + horticulture**



**Construction**

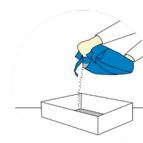


**Chemicals + petrochemicals**



**Foodstuffs**

### Easy opening and resealable closure function



**PowFlex® premium powder packaging consists of 100 % PE – single-origin and completely recyclable.**

## Size ranges

| Sack width          | Side gusset width  | Cut-off length        | Material thickness | Opening perforation |
|---------------------|--------------------|-----------------------|--------------------|---------------------|
| 195 – 450 mm ± 5 mm | 60 – 220 mm ± 5 mm | 300 – 1,350 mm ± 5 mm | 120 – 140 µm ± 5 % | Max. length: 210 mm |

## Mechanical values (140 MY PE coex film)

|                                      |                                                                                     |                                    |
|--------------------------------------|-------------------------------------------------------------------------------------|------------------------------------|
| Coefficient of friction (COF)        | µs 0.5 / µd 0.4 ± 0.05                                                              | DIN EN ISO 8295 / ASTM D 1894      |
| Tear resistance / elongation at tear | ≥ 80 N/15 mm longitudinally / transversely<br>≥ 500 % longitudinally / transversely | DIN EN ISO 527                     |
| Elmendorf                            | ≥ 1,200 cN longitudinally /<br>≥ 2,200 cN transversely                              | DIN EN 21 974 / ASTM D 1922        |
| Creep test                           | ≤ 45 % longitudinally / transversely<br>(50°C / d = 5 / 1.3 kg)                     | Bischof+Klein in-house test method |
| Water vapor permeability             | 0.35 g/m² x d (23°C / 85 % r.h.)                                                    | ASTM F 1249-90; DIN EN ISO 15106-2 |

## Design description

- + Ventilation through channel – labyrinth system (separate inflow strip – individual widths possible)
- + Indirect ventilation = high moisture protection
- + Sealing not possible in the ventilation channel due to the separating strip
- + Suitable for pattern repeat printing

## Additional equipment

- + UN approval
- + UV protection for 12 months
- + Antistatic equipment
- + Different film colors
- + Various film structures
- + Printing with up to 8 colors

## Packaging

- + Reel material on plastic cores Ø 150 mm
- + Maximum reel diameter 1,350 mm\* (depending on the width and side gusset width of the film)
- + 3 – 4 reels on a pallet 1,000 x 1,200 mm\* (depending on the width of the reels)
- + Protectively packaged with black film hood, strapped with plastic bands, and stretch wrapped

## PowFlex® premium fl – for fixed sack lengths

