



# PowFlex® ffs premium powder packaging

PowFlex® ffs premium is a further development of the proven standard version. Thanks to the separate ventilation strip, increased ventilation performance and therefore improved air transfer are achieved. The seamless front side offers greater scope for designing the printed image. As material on reels, PowFlex® ffs powder packaging is a proven alternative to converted sack packaging (for 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**

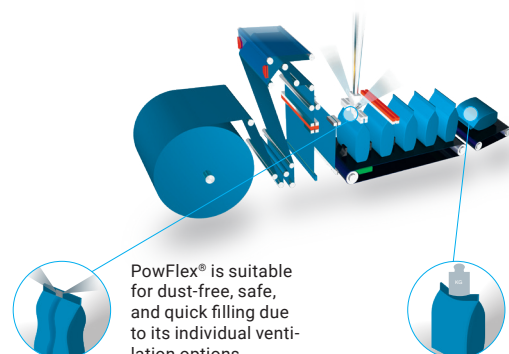


**Chemicals + petrochemicals**



**Foodstuffs**

## Form, fill and seal filling line function



PowFlex® is suitable for dust-free, safe, and quick filling due to its individual ventilation options.

The high dart impact resistance enables safe and clean transportation.



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

## Size ranges

Sack width	Side gusset width	Section length	Material thickness
195 – 450 mm ± 5mm	60 – 220 mm ± 5mm	300 – 1,350 mm ± 5mm	120 – 220 µm ± 5%

## 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 ≥ 500 % longitudinally / transversely	DIN EN ISO 527
Elmendorf	≥ 1,200 cN longitudinally / ≥ 2,200 cN transversely	DIN EN 21 974 / ASTM D 1922
Creep test	≤ 45 % longitudinally / transversely (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

