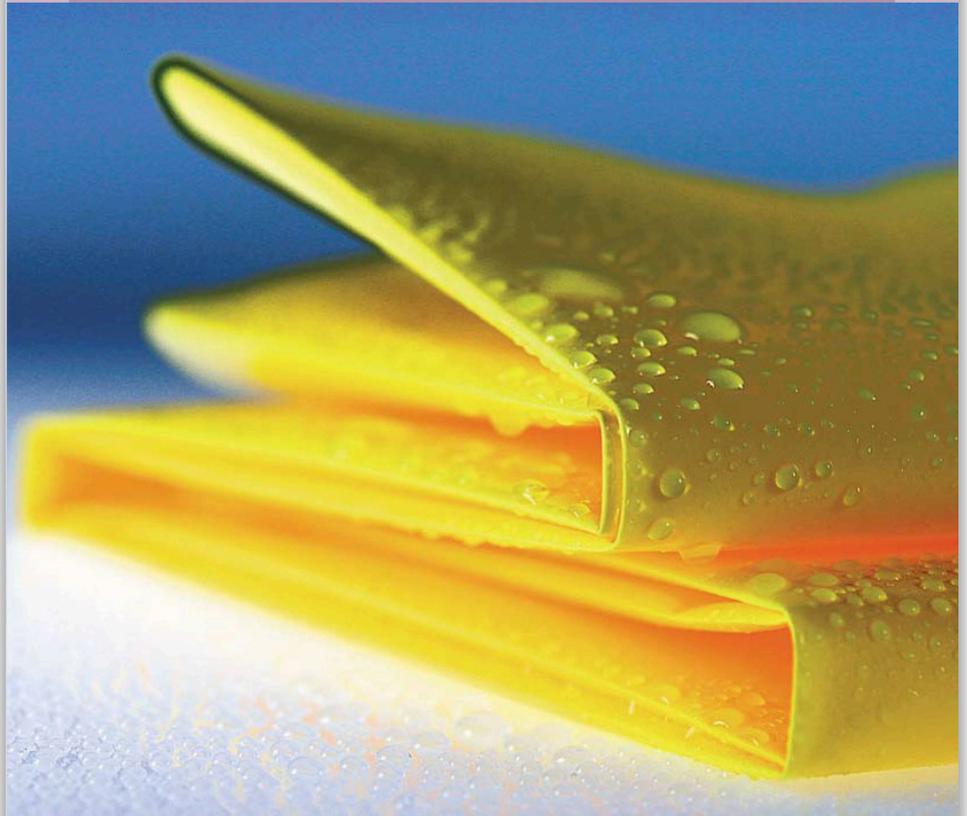




GO FOR INNOVATION AND SUSTAINABILITY
PLASTIC SACKS FOR POWDERY GOODS ■



solutions in film 'n' fiber ■■■■■■■■

presented by Rosenflex in association with RkW

PACK, WRAP,

PROMOTE AND

PROTECT YOUR

PRODUCTS

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PLASTIC AND ITS STRENGTHS



MORE SUSTAINABLE THAN PAPER

Viewed over its entire life cycle, plastic packaging for building materials and powdery goods is more sustainable than conventional paper bags because:

- Packaging made of plastic is tear- and weather-resistant so it does not cause any material losses. Also, paper solutions are very sensitive: up to 11% are damaged on the journey from the dealer to the customer – with the corresponding costs and environmental impact.
- The RKW-Group adds a particularly effective moisture barrier to its plastic films. In plastic packaging, moisture-sensitive products such as plaster can be stored significantly longer than in paper bags, and even outdoors.
- Using plastic bags cuts wastewater by 80%, 14% of the necessary energy can be saved, and greenhouse effects can be halved.
- Recycling one tonne of plastic only requires about 10% of the energy required to recycling one tonne of paper.



ENVIRONMENTALLY EFFICIENT

During an eco-efficiency analysis made by BASF SE, the RkW-Group compared the attributes of its plastic packaging for construction materials with those of conventional paper bags.

The result:

Plastic is superior to paper in many respects.



FROM THE CUSTOMER'S STANDPOINT

End users value plastic because it is more sustainable and environmentally friendlier than paper. A life cycle analysis has shown that PE bags are the ecologically superior solution in terms of energy consumption and emissions.

ENERGY CONSUMPTION

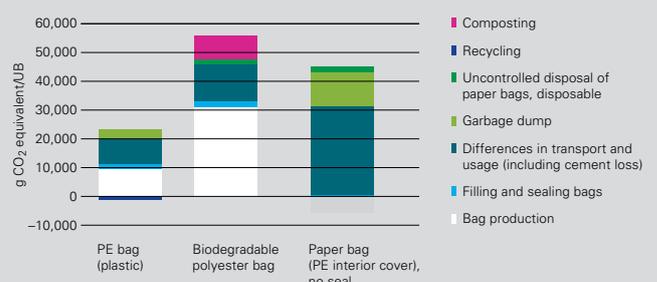
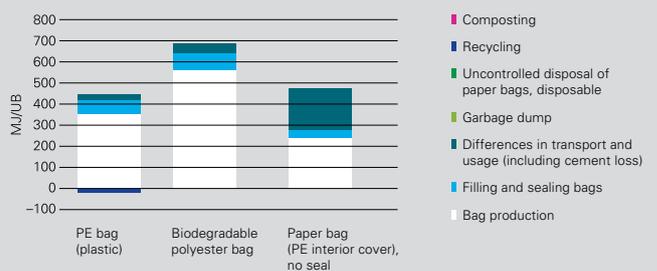
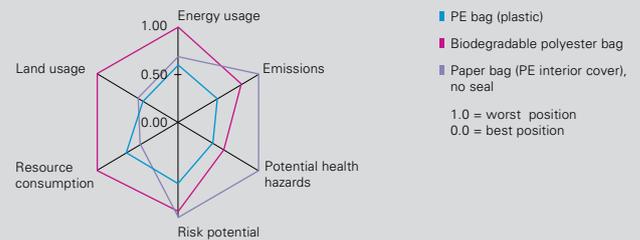
According to the eco-efficiency analysis, the production and conversion of biopolymers consumes more energy than for PE bags. Paper packaging also entails additional cement production due to a higher amount of product loss with the related energy consumption for production, shipping, and storage.

EMISSIONS

CO₂ emissions generated by the use of paper packaging are twice as high as those generated by plastic packaging.

ALL-IN-ALL, PLASTIC BAGS ARE 39% MORE ENVIRONMENTALLY FRIENDLY THAN PAPER BAGS.

(Source: Lafarge)





Good for individuals and the environment

RKW ProVent® – that's the name of the plastic sack designed for powdery goods that RKW, as the world's first film manufacturer, has developed and introduced to the market as an alternative to the standard paper sack.

In comparison to the standard paper sack, this new FFS packaging solution combines persuasive advantages for individuals, the economy and the environment. Excellent product features have convinced both our customers as well as consumers.

RKW ProVent® is the modern alternative to the paper bag, significantly facilitates the filling process, and is already recognized and established in the European market.

THE BENEFITS FOR MANUFACTURERS AND DEALERS:

- A sustainable solution:
Environmentally friendly and cost-efficient in production and during recycling
- Less dust leakage:
Higher occupational safety and lower maintenance and cleaning costs through lower storage and machine contamination
- Lower personnel costs:
Simple handling means less work
- High customer satisfaction:
Less material damage and loss reduce time and cost expenditures
- Perfect stackability:
Due to non-slip packaging surfaces and permanent positive venting
- Safe outdoor storage:
Water barriers and UV protection make the packaging weatherproof – even without being covered
- Reliable storage:
Good tear and puncture resistance of the packaging together with the moisture barrier means that the goods can be stored longer
- High recognition factor:
Packaging can be printed in up to eight colors

BY REDUCING FILLING MATERIAL LOSSES, RESTOCKING COSTS CAN BE LOWERED AND WASTE DISPOSAL COSTS CUT.



INNOVATIVE PACKAGING SOLUTION FOR POWDERY GOODS



THE BENEFITS FOR THE CONSUMER:

EASY HANDLING

CLEAN TRANSPORT

SIGNIFICANTLY EXTENDED SHELF LIFE

WEATHERPROOF

EXTREMELY STRONG

REDUCED FILLING MATERIAL LOSS

NO COVERING NEEDED

LESS WORK

LESS WASTE—SAVES MONEY

**FLEXIBLE STORAGE—
CAN EVEN BE STORED OUTDOORS**



FFS FILMS - FORM, FILL, AND SEAL



FFS FILMS - FORM, FILL, AND SEAL

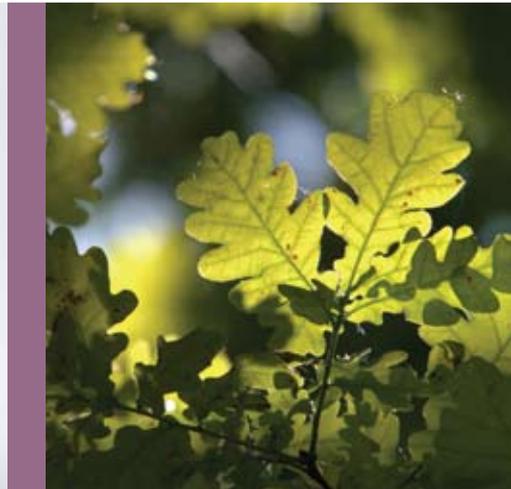
FFS films, either as tubes or flat films on rolls, can be processed on all FFS machines to any desired packaging version. The benefit: excellent machine compatibility and high filling speeds. FFS films can be printed on both sides in up to eight colors and can be manufactured in multiple versions (e.g. COEX, PE/ALU, PE/paper, PE/PA). On request, we can also supply individual packaging solutions, specially tailored to your specific needs.

PRODUCT DATA:

- The FFS films are supplied as side-folded tubes on rolls
- The excellent machinability means high filling performance: up to 2,400 bags per hour!
- Designed for FFS filling systems
- Automated manufacture, filling, sealing, and stacking
- Widths: 250 to 500 mm
- Side-fold depth: 40 to 85 mm
- Volumes: 10 to 100 liters



CONTRIBUTION TO ENVIRONMENTAL PROTECTION AND SUSTAINABILITY



WE TAKE OUR RESPONSIBILITY SERIOUSLY

Environmental protection and a sustainable way of life are of concern to us all! That is why we at RKW use raw materials and energy very consciously and economically. Wherever possible, we avoid delays and emissions in our manufacturing and logistic processes. With few exceptions, we recycle unavoidable wastes and wastewater within our plants.

Environmental protection and commercial success are no contradictions for the RKW-Group; in fact, the opposite is true. The thoughtful use of our natural resources is just as important for us as the quality of our products and services. And now, in times of increasing resin and oil prices, sustainability and environmental protection goes hand in hand with innovation and commercial success.

Developing sustainable, economic, and environmentally friendly packaging solutions – we have made this our prime objective!



QUALITY FOR PERFECT PROTECTION

As a renowned international manufacturer of high-quality polyethylene packaging solutions, RKW ProTrans® offers an excellent product program for protecting goods during the course of handling storage and transport.

Industrial packaging should do it all: It should be stable, be able to treat packaged goods with care, and be able to withstand inclement weather conditions. For RKW ProTrans® these demanding requirements have always provided the motivation for supplying our worldwide customers with intelligent packaging solutions.

Experience, expertise and customer proximity guarantee our success – for our customers and for us.

RKW-GROUP

The RKW-Group is one of the leading European manufacturers of polypropylene and polyethylene films and nonwovens.

- Over 54 years of experience in the manufacturing of polyolefin films
- State-of-the-art technology
- Processing of approx. 350,000 tons of polyethylene and polypropylene per year
- Over 2,800 employees
- 21 locations worldwide
- 5 Global Business Areas (GBAs)
- Global sales network

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