

Bagging technology made simple with contemporary flexibles

Do you want to reduce the environmental impact of your products?

Schur[®]Star Systems are committed to offering packaging solutions that minimize carbon emissions. With its low weight and volume, flexible packaging excels by an attractive packaging-to-product ratio, making it not only eco-conscious, but also cost-effective.

This flyer presents some Schur[®]Star solutions. With our single-source materials, our recyclable and recycled options, and by investigating the possibilities of downsizing and downgauging, you will be moving in the right direction.



Flexibles are the eco-conscious and cost effective choice

Downsizing and Downgauging

An important method to bring down carbon emissions is reduction of material consumption.

Downsizing contributes to a reduced environmental impact by avoiding excess material. Likewise, material consumption can be cut down by **downgauging** to a thinner material. For some products, however, a thinner material may affect the performance of the bag along the supply chain.

A Schur[®]Star Bag is customized to its specific purpose. The layout may be standard, but the result is always bespoke. We calculate all bag formats individually, in close cooperation with our customer, and based on the exact volume of the intended contents.

Virgin PE and PP

PE and **PP** are cost-effective, high performance materials. In pure form, they are 100% recyclable, in high density state they can be recycled up to ten times. Single-source flexibles are recyclable in established recovery streams, to form part of a circular economy.

PIR and PCR

Post Industrial Recyclate (PIR) is excess material, deriving from film extrusion. The excess material is reworked to a film possessing the same qualities as a corresponding film based on virgin material.

Post Consumer Recyclate (PCR) is a valuable contribution to an eco-conscious approach, to waste reduction and a circular economy. As a recyclate, the properties may differ slightly from lot to lot. It is not possible to obtain a FDA/BRC approval for direct contact with food.

Both reworked films are convertible into all Schur[®]Star bag formats. Dependent on the contents of recyclate, the film may appear hazy. The machineability of the material is not affected by the alternative resin.



A Schur[®]Star Bag is customized



Bags based on 80% PIR



Bags based on 100% PCR

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Laminates

PE or PP based single-source laminates are fully recyclable. Appropriate collection, sorting, and recycling infrastructures are prerequisite.

MDO-PE is produced with a special extrusion process, which changes the properties of the classic PE film to a stiffer and more rigid appearance. With efficient oxygen and humidity barrier, MDO-PE makes an excellent substitute to PET in a traditional PET//PE laminate.

Likewise, an **OPP//CPP laminate** offers outstanding barrier qualities and substitutes PET perfectly. Like MDO-PE based laminates, the OPP//CPP combination is distinguished by high machineability and attractive appearance. With the application of PP it is microwavable.

Also a laminate applying **bioplastics** is fully recyclable. **Plantic** is based on starch, and used as the middle layer it acts as an adhesive. Recycling requires a separation process in which the plant-based middle layer is dissolved. This allows for separate sorting of the other layers. The process requires special cleaning facilities.

The described laminates are uncontaminated and thus FDA/BRC approved.



PE//PE laminate for petfood



Microwavable OPP//CPP laminate for potatoes



Pure paper bag for pasta

Paper

The patented Schur[®]Star Pure Paper Bag is produced from pure, unbleached, and non-coated paper – a renewable resource, recyclable in pure paper streams.

The raw material has a strong fibre structure, improving tear and puncture resistance and thus strength. Like all other Schur[®]Star flexibles, paper bags are designed for fully automated handling and sealing. A 100% plastic-free heat-sealable coating is applied only where needed, i.e. in the sealing areas. This brings the contamination level down to 0.04%.

The coated Schur[®]Star Paper Bag holds a thin inner layer to offer the contents protection against humidity. The applied layer brings the PE contents below the 5% recycling target.

Why Schur[®]Star?

Unique adaptability

Our range of eco-conscious solutions emphasize the extreme flexibility and adaptability of the Schur[®]Star Concept to any environment, product, process and filling condition. Effortless change-over between bag materials and formats require no additional tooling.

Whatever your material and bag format requirements are, we supply it.



PE coated paper bags for prepacked shortbreads

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