

GreenLution

The Future Capsule System



The Environmentally Friendly Alternative to the Production of Coffee Capsules

The GreenLution capsule system, with its perfectly matching capsule, top film and filling line components, offers the possibility of producing coffee capsules while taking ecological aspects into account. It is characterized by the use of sustainable materials for capsule and top film, resource-saving dosing and packaging, as well as being fully recyclable. GreenLution promotes a sustainable closed-loop system from production and use, all the way to the recycling of the packaging material. The great interest from the market for mono-material PP GreenLution solutions confirms our vision of sustainable packaging without loss of quality.

The Fields of Application

Wide Range of Applications

The GreenLution capsule system is ideal for filling coffee, milk and chocolate powder as well as tea. However, it can also be expanded and used for packaging systems of other types that are not recyclable today.



The Properties

Convincingly sustainable

- Completely recyclable
- Sustainable material: capsule made of PP with a proportion of certified PP based on biological waste, recyclable mono-material laminate made of PP for top film
- Aluminum free

The Advantages

Sustainably convincing compared to conventional top film

| | GreenLution top film OPP/barrier/cPP | Conventional top film PET/Barrier/CPP |
|---|---|--|
| Fully recyclable | X | - |
| Good rating for recyclability | X | - |
| Lower carbon footprint | X | - |
| Reduced material consumption when using a 2-ply laminate | X | X |
| Contributes to sustainability initiatives for filling line operations | X | - |
| Enables implementation of legal requirements concerning sustainable packaging | X | - |

The Added Value

Resource-saving, aluminum-free, easily recyclable

| Capsule | Capsule top film | Filling line |
|---|--|---|
| Filter parts inside the capsule made of monomaterial | High-barrier mono-material top film for optimal recycling | Highest dosing accuracy for different types of coffee |
| Capsule made of PP with a proportion of certified PP based on biological waste | Excellent product protection thanks to high aroma barrier | Minimum space requirement with an efficiency increase to 98 % and a production scrap rate of < 0.05 |
| NIR detectable materials for best sortability | High oxygen and water vapor barrier as well as against MOSH/MOA | Maximum product protection with minimum gas consumption |
| Optimal aroma barrier, up to 24 months | Up to 24 months shelf life thanks to OPP barrier | Low energy consumption due to optimized sealing technology with consistent sealing quality |
| Aluminum free | Aluminum and BPA/PVC/PVDC free | Improved film utilization through optimized film handling |
| Multi-layer capsule without additional repackaging or Secondary packaging | Use of 2-ply or 3-ply laminates possible | Preventive maintenance programs reduce wear parts and increase productivity |
| Food compliant according to FDA and EU regulations | Perfectly matched to capsule and filling line | Short set-up time and fast availability through vertical start-up service concept |
| EVOH < 3 %, therefore highly recyclable | The lid film has a favorable recyclability rating at Interseroh | Simple conversion of existing machines thanks to modular design |
| Capsule geometry and color at choice, perfectly coordinated with top film, bottom film and filling line | Thanks to comprehensive development and know-how of the system partners, only minor adaptation to the filling line necessary | Sustainable, professional disposal of trial and commissioning materials |
| Certified by the institute cyclos-HTP as recyclable and good assessment of recyclability by Interseroh | Printable in gravure, flexo and digital printing | |

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