

CONTACT: Paola Centonze at
paola.centonze@itp.it



Flexible thermal-laminated PE film - 100% recyclable

ITP Spa has developed two films for the packaging of fresh foodstuffs, to be laminated without the use of glues. The two films, one of which is "self-adhesive" and the other one is rigid, are two polyethylenes, for a 100% recycling.

Technology

Thermal lamination is a lamination system without solvents and without chemicals, yet capable of effectively and efficiently "sticking" the two films for an aesthetically good packaging.

The advanced technology of ITP Spa allows the converter to use only the action of temperature and pressure, to laminate the self-adhesive sealable PE, in direct contact with the food, to the outer PE, rigid and thermally resistant.

Properties

The structure is suitable for making stand-up pouches, bags, top trays. It is normally produced both in a non-barrier version and in a high barrier version, with an EVOH content <5%, for optimal recycling. Also available, alternatively to a lock-up sealing, a peelable version with easy opening.

Packaging circularity

ITP Spa has concretely experimented, on its pilot line, recycling tests:



*In the picture above: on the left granules obtained by regrinding laminated film **with glue** and re-extruded film. On the right, granules obtained by regrinding a thermal laminated PE/PE and re-extruded film.*

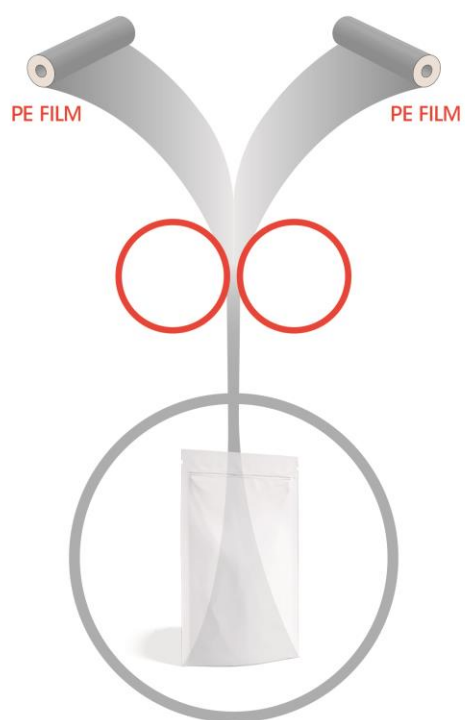
Unlike traditional packaging, the mechanical recycling of the thermal-laminated film, which is made without glue, allows to obtain a particularly pure and white granules, very similar to the virgin one.

As a consequence, its re-extrusion makes it possible to get a transparent and good quality film.

In addition, by totally eliminating the risk of aromatic amines, the consumer will benefit from greater food safety.

The sustainability of the thermal-laminated packaging is also evaluated in terms of environmental impact: solvents and chemical products (adhesives) normally used have been eliminated.

Finally, the lack of the chemical components and of the time normally needed for the cross-linking of the glue after the laminating phase, allow a significant economic saving, as well as a reduction in delivery times.



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