Perforated Films
Laser solutions for ideal shelf life and product quality

Overview
In today’s consumer goods market, customers are strongly influenced by shelf presentation and convenient product handling. Thus, converters are often asked to deliver innovative packaging solutions, which are one step ahead of the competition. Lasers are a key technology for smart packaging solutions.

Optimize your solutions with laser-scribed easy-to-open tear lines and laser-perforated multilayer films for enhanced shelf life of perishable fresh food. Unlike mechanical perforating methods such as needles and knives, laser technology creates precise and uniform holes or scored shapes, decreasing the effects on film strength and uniformity.

Technology
Our range of laser-perforated films features various gas barrier levels in combination with other properties. The films are engineered to ensure optimal packaging and better shelf life. Addition of anti-fog properties and high quality reverse printing allows enhanced product presentation and visibility on store shelves.

A versatile selection of films makes it easy to find the perfect match for any application: tray sealer, thermoforming, as well as vertical and horizontal flow pack machines with different sealing layers and seal properties.

Laser Perforation Capabilities
Various options for perforation available, customizable according to the product’s respiration needs and package size:

- Adjustable perforating pattern layouts to maintain desired OTR requirements; from extremely high for highly respiring produce, to a single hole for slower respiration
- Different hole size – ranging from 70-250 micron
- Different repeats – at fixed distance or registered by eye marks
- Different placement on film – according to required OTR, film layout, number and size of trays on each cycle, package size, etc.

Laser Scoring Capabilities
Various options for scoring available, affecting only some of the films’ layers, and therefore, not impacting the film’s barrier level:

- Availability of different pattern shapes and placement in the package
- Easy to open with steam pressure for microwave packaging or physical force for easy opening tear lines application
- Different repeats – at fixed distance or registered by eye marks
- Specific cut shape at the edges of the film: straight line, contour line, and patterned shapes

Food Segments
Suitable for fresh produce packaging, fresh fish and seafood packaging, and frozen food meant to be heated in a microwave or conventional oven (when steam release is required)

Food Segments
Suitable for chilled ready meals to be heated in a microwave or oven, easy open packaging with tear lines, special packaging applications

www.plastopil.com
100 micron laser hole (magnified)