

Advancing lidding film with multiple layers

New technologies like EVO Ultra Die from Reifenhäuser Blown Film are revolutionizing lidding films for food packaging, creating new efficiencies.

Multilayer films have a multitude of benefits.

Food packaging featuring resealable plastic films is gaining popularity on supermarket shelves. As effective oxygen barriers, multilayer film lids play an important role in protecting food by keeping harmful elements out. These films can feature a variety of polymers to provide specific protection against damaging exposure to air, vapor, or light.

And with new technology, multilayer barrier films can be blown with highly specialized structures to fit specific needs. For example, Reifenhäuser Blown Film has introduced EVO Ultra Die technology that has set new standard in processing speed for blown film with 9 to 11 layers. With the addition of Eastman Eastobond™ copolyester as a sealant layer run on Reifenhäuser lines, it's now possible to switch to mono-APET trays, improving both productivity and recyclability.

Creating the ideal seal

Traditional multilayer food contact lidding for some food contact applications requires a two-layer tray consisting of both polyethylene (PE) and polyethylene terephthalate (PET), which can increase costs and hinder recycling efforts. But with Eastman Eastobond 19412 as part of the sealing film, food packaging manufacturers can switch to mono-APET trays.

That's because Eastobond 19412 acts as a universal sealant layer. It requires a lower heat-seal initiation temperature and adheres to mono-APET trays of different compositions.

Eastobond 19412 is suitable for sealing technologies, including:

- Locked sealing
- Peelable sealing
- Reclosable sealing

Preserving sustainability

Eastobond 19412 has been cleared for use for food contact applications under European Union Commission Regulation (EU) No. 10/2011.

As a sustainable solution, Eastobond:

- Eliminates the need for PE lamination on the food tray, allowing brands to feature food packaging with fully recyclable trays
- Seals to monolayer PET trays of different compositions, eliminating the need for adhesives and their associated volatile organic compounds (VOCs)
- Enables lighter packaging due to removal of the PE layer; plastic films are also lighter than traditional plastic lids or packaging made with metals or glass

More than a seal; it's a deal.

Using Eastman Eastobond™ copolyester as part of a multilayer lidding film may provide cost-saving advantages too, including:

- Reduced cycle times on food packing lines due to lower seal initiation temperature
- Reduced energy usage
- Less industrial waste—all mono-APET tray waste can be reground and reused.
- Elimination of the secondary process of PE lamination on the APET tray

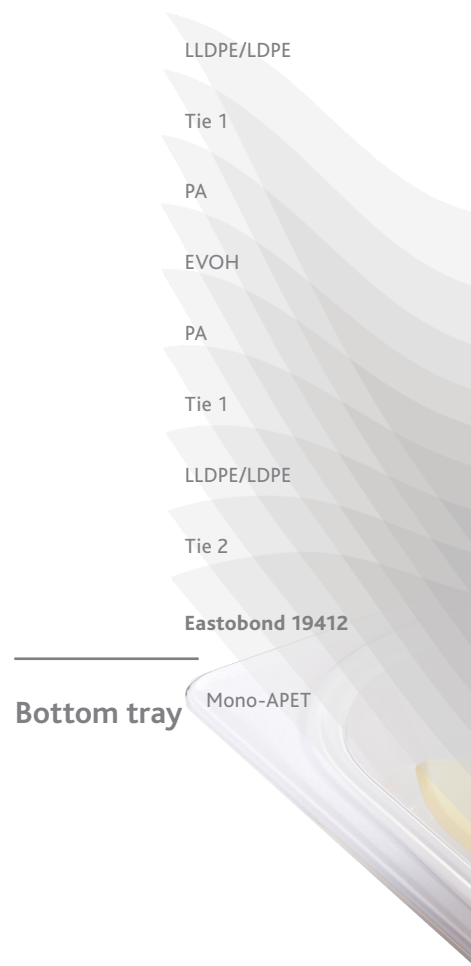


With EVO Ultra Die technology, Reifenhäuser Blown Film sets a new standard for the fastest barrier blown film die head in the market. Its new die head concept now allows the production of even more layers.


Reifenhäuser
BLOWN FILM

To find out how Eastobond can be processed on Reifenhäuser Blown Film equipment, contact the company at info@reifenhäuser-bf.com.

An example of multilayer lidding



To see how Eastman Eastobond™ copolyester can help you create the ideal seal, contact your Eastman representative.

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