

▶ **Cast film line**

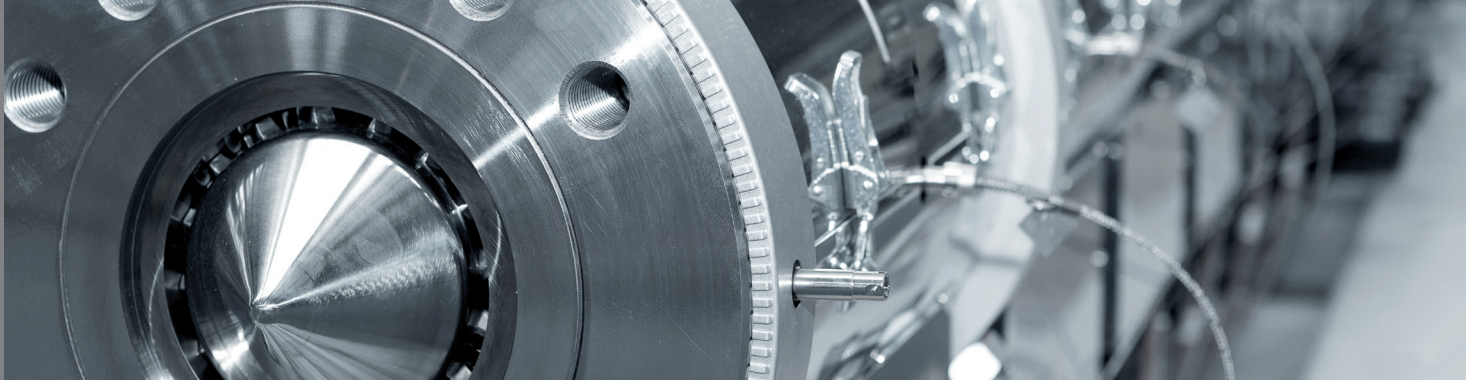
▶ **Coating &
laminating
line**

for PE-based
mono-material
solutions



Powered by

SML



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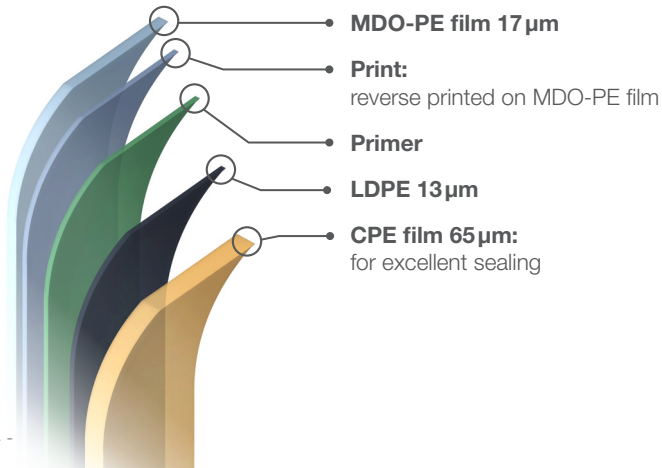
Extrusion lines – engineered to perform.



Single-source solutions for cast film production and the subsequent coating & laminating processes establish a solid foundation of knowledge for the development of future packaging products.

SML's long-term experience paired with in-house testing facilities allow outstanding solutions for processing any polymer, using both **cast film extrusion** and **extrusion coating and laminating**.

► PE-based mono-material pouches – the flexible packaging solution easy for recycling



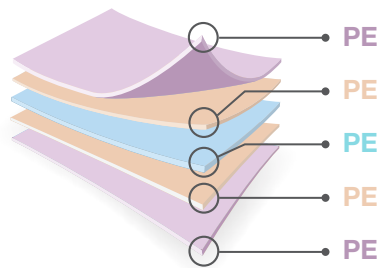
Your advantages:

- **Mono-material** – all-PE-solutions
- **Excellent recyclability**
- **All from one single source** – integrated production on cast film lines with subsequent coating & laminating

- Availability of different methods to manufacture **barrier layers** with specific properties: cast MDO-PE, cast PE or in the lamination process
- Flexibility in **setting the product thickness** in the lamination process
- **Wide range of applications** for liquid, creamy or chunky food and non-food products

► MDO-PE film made on SML cast film lines

The properties of MDO-PE films produced on SML's latest cast film lines speak for themselves: Thickness ranges from ultra-thin 15 µm to 60 µm, a perfect thickness profile across the entire film width, and various product types such as barrier film or subsequent metallisation are the main benefits of manufacturing MDO-PE film on a cast process.



Key features:



► Integration of a barrier layer as an option



► Provides strength and stiffness



► Ready for coating and lamination



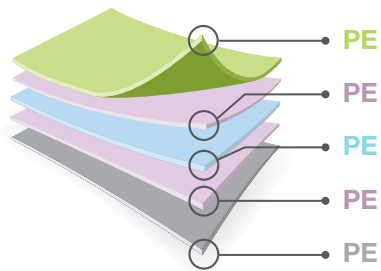
► High transparency



► Printable and ready for metallising

► Sealable CPE film made on SML cast film lines

Conventional CPE film manufactured on cast film lines from SML is characterised by its low gauge tolerance and high transparency. Manufactured with a sealing layer, it perfectly matches with MDO-PE film in subsequent lamination processes for applications such as pouches.



Key features:



► Integration of a barrier layer as an option



► Improved transparency



► Ready for coating and laminating



► Sealability – sealing layer

► SML cast film line with integrated MDO

SML's latest cast film lines stand for maximum flexibility and a wide range of different applications: From films for metallised and laminated food and non-food packaging, to medical films and technical products like cable insulations. Its state-of-the-art MDO unit was especially designed to manufacture easy-to-recycle mono-material films such as MDO-PE and MDO-PP.

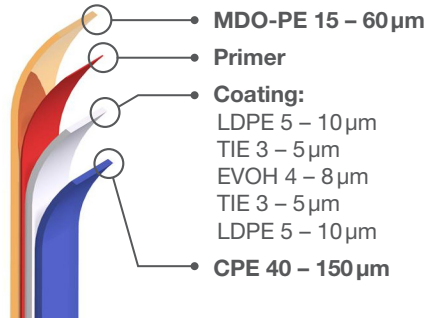


Key facts:

- Products: ► CPP- / CPE- / MDO-PP- / MDO-PE- / MO-barrier film
- Number of Extruders: ► 5
- Number of layers: ► 7
- Output range: ► Up to 1,200 kg/h
- Automatic die with motorized deckling: ►
- Auto-mapping-system: ►

► PE based laminates made with SML extrusion technology

For example the MDO-PE and CPE films produced by cast lines can be joined together on an SML coating and laminating line just by using PE. In this way the properties of both substrates are combined whereby the MDO-PE film can be either laminated or coated as required. In addition functional layers, such as barrier films, can be integrated in the layer structure.



Key features:



► Designed for recyclability with PE mono-material



► Recyclability despite optional barrier layer



► Variable thickness throughout lamination process

► **FlexPack®** – extrusion coating and laminating line

FlexPack® is a well-proven SML concept, that stands for flexibility and simplicity in coating and laminating. It was specifically engineered for the dynamic packaging market but has also established itself in technical applications. FlexPack® guarantees thoroughly safe, cost-effective and user-friendly production while delivering extraordinary product quality.



Key facts:

- | | |
|---------------------|--|
| Substrates: | ► MDO-PE, CPE, BOPP, BOPET, paper, aluminium foil, metallised film, barrier film |
| Products: | ► MDO-PE pouches, flexible packaging, technical applications, medical applications |
| Extrusion material: | ► HDPE, LLDPE, LDPE, EAA, DIE, EVOH, Ionomers |
| Coating weight: | ► 5 – 50 g/sqm (depending on the product) |
| Coating layers: | ► up to 5 layers |
| Max. line speed: | ► 450 m/min shaftless |

SML

EXTRUSION LINES – ENGINEERED TO PERFORM ▶

At SML we consider it our task, to handle our given resources carefully. As a leading manufacturer of machines for the plastics industry, we are constantly working on the development of ready-to-go solutions that effectively help to minimise the impact of plastics on the environment.

One example of the many possibilities is the creation of easy-to-recycle mono-material solutions for pouches.



SML - Head Office

Gewerbepark Ost 32
4846 Redlham

Austria

Tel.: +43 7673 90999
E-mail: sml@sml.at

SML - Malaysia Office

SML - Beijing Office

SML - North America Office

www.sml.at