



Exceed™ Vistamaxx™

Multifunctional SML cast film line at ExxonMobil Shanghai Technology Center

Multifunctional cast film line with integrated MDO (machine direction orientation unit):

- 7-layer cast film line with 5 extruders
- MDO unit for MOPP/MOPE and breathable films
- Embossing unit for meltembossed films
- Unwinder for roll-to-roll MDO operation
- Winder for small diameter mother rolls and part bobbins



Products	Stretch film, CPP film, CPE film, protective film, meltembossed film, elastic film Mono-oriented breathable film, MOPP/MOPE film, pre-stretched film
Film structure	7-layer film: A / B / C / D / C / B / E
Film thickness range	8 - 45 µm for stretch wrap film
	15 - 100 µm for CPP and CPE film
	10 - 40 µm for hygiene film
	15 - 70 µm for elastic film
Final film width	1,000 - 1,200 mm for cast film, depending on line speed and film thickness
	750 - 850 mm for mono-oriented breathable films
	800 - 900 mm for mono-oriented PP/PE films
Max. mechan. line speed	650 m/min



Extrusion:

- Dry air drying system for filled compounds
- Gravimetric dosing system with screw feeders with 4 components for each extruder
- Extruder configuration A / B / C / D / C / B / E
A: 60/33, B: 75/33, C: 90/33, D: 60/33, E: 60/33
- Hydraulic screen changers
- 7-layer feedblock with variable geometry
- Automatic flat die 1500 mm width including die splitting system
- Double chamber vacuum box

Take off and cooling unit:

- Roll width 1700 mm
- Primary chill roll diameter 1000 mm, for cast film exchangeable to embossed chill roll with diameter 800 mm for meltembossed films
- Silicone embossing roll with 2-layer silicone with diameter 700 mm and 2 water cooled support rolls for dry embossing process
- Secondary chill roll diameter 400 mm
- Electrostatic and pneumatic edge pinning system
- Airknife, 3-axis adjustable

MDO unit:

- 3 preheating rolls, 4 stretching rolls for first gap (mechanically adjustable), 3 stabilizing rolls, 4 stretching rolls for second gap (fix gap), 3 annealing rolls, 2 cooling rolls
- Roll temperatures up to 165°C
- Stretching ratio up to 1:10
- Single unwinding unit for offline roll-to-roll operation with MDO

Thickness measuring unit:

- First frame for non-oriented products directly on cooling unit, X-ray sensor
- Second frame for oriented products after MDO, X-ray sensor

Corona treatment:

- One side treatment station
- 20 kW generator

Edge trim handling:

- Edge cutting blades in front of MDO and directly on winder
- Suction system into big-bag station

Winder:

- W4000-2S stretch film winder for max. 1500 mm winding width
- Part bobbin operation possible
- 3-inch winding shafts
- Automatic core feeding for 500 mm cores
- Max. mechanical roll diameter 400 mm



Engineered to perform

SML Maschinengesellschaft mbH with its head office in Redlham, Austria is specialised in building high-performance extrusion equipment. Based on 30 years of experience SML has made itself a name in the international market by tailoring extrusion lines to customer requirements. Optimal product and line concepts are designed and developed together with our customers, utilising the latest findings in plant engineering and extrusion technology.

For more information: www.sml.at
SML booth at Chinaplas 2019: 10B43

Portfolio of performance polymers:

- **Exceed™ Flow** resins deliver excellent processability and improved extrusion when you are looking for more stable operations and better line output
- **Exceed™ Tough** resins offer outperforming toughness and strengths for demanding application
- **Exceed™ Stiff** resin portfolio is the solution when your applications demand ultimate stiffness
- **[+] Exceed™ Flow+, Exceed™ Tough+ and Exceed™ Stiff+** resins are our sub-brand portfolio that provide **multiple attributes and higher value** for most demanding applications
- **Vistamaxx™ performance polymers** is a versatile polymer modifier that can be used in practically all conversion processes

For more information: exxonmobilchemical.com

What's new: **ExxonMobil Signature Polymers**

All our polymers are now positioned under a single portfolio brand: **Signature Polymers**. The aim is to simplify our product architecture and naming to improve portfolio navigation for you. We would like to stress that our commitment to high quality products remains the same. The composition of the products are unchanged, it is only the names that updated. We will be making these modifications over the next few months, through mid 2025, so you will see both old and new grade names highlighted during that time. Here's a quick overview of brands and grade names that will be changed in this document:

Legacy Commercial Name
Enable™ performance polyethylene

New Commercial Name
Exceed™ high performance polymers

Want to see what's changed in our portfolio? Go to: exxonmobilchemical.com/sptransform

ExxonMobil
Signature Polymers

Bring your impossible

ExxonMobil Signature Polymers was born from the belief that people fuel progress. From automotive and construction to packaging, agriculture, industrial, and beyond, we leverage the scale and reach of ExxonMobil to deliver the insights and innovations that empower our diverse, global partners to take their businesses to new heights. We continuously work to provide the listen-first, service-driven, gamechanging collaboration that unlocks opportunities for our partners and advances their sustainability and business goals.

