



INEOS

Olefins & Polymers Europe

Your partner in

**EXTRUSION
COATING**

**Laboratory Coextrusion
Coating Line**

INEOS



**50 Years Experience
in Technical Service
Extrusion Coating**

INEOS Olefins & Polymers Europe

Longterm Experience

To deliver the right solutions for you, INEOS has a world class laboratory extrusion coating line and a dedicated team of technical experts with a wealth of experience and knowledge. This team is committed to supporting and working alongside you to make best use of INEOS products in maximising the performance of your extrusion plants as well as resolving any day to day issues that you may encounter.

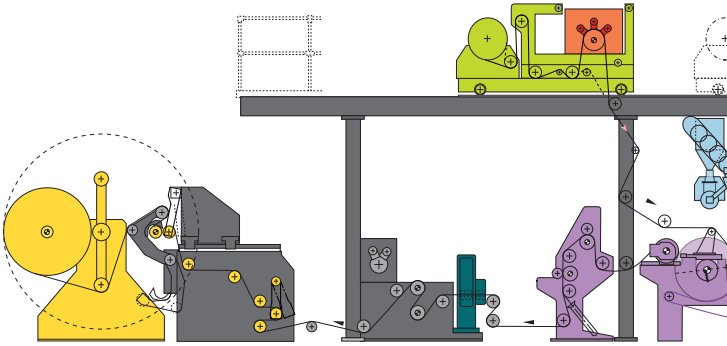
Our extrusion coating line is one of the most advanced laboratory based systems in Europe. With a line speed of 1111m/min it is capable of replicating full-scale production and provides a maximum 5-layer co-extrusion facility. With our portable IR-temperature measurement device, which measures the melt temperature and distribution over the die width of the melt curtain, we can show you how the melt temperature is affected by varying the parameters on our machinery. In addition, our extrusion coating line enables investigations to be carried out on the application of polymers and different polymer coex-structures as well as various substrates.

As you would expect, our close contact with the leading machinery suppliers and suppliers of ancillary equipment (Corona, Flame or Ozone treatment) ensures we are up to date with the latest technologies which we can make available to you, demonstrating our continuous drive and commitment to providing a first class service to our customers.

Working in partnership with INEOS and utilising our unrivalled experience and technology not only gives you the opportunity to develop new and innovative products, it also enables you to investigate and find solutions to any of your production line issues.

We look forward to working with you.

Technical Drawing of the INEOS Coextrusion



Turret winder

centre winding
contact or gap
winding

automatic roll
change and splice

chucks with
core diameter
70 mm (3"),
150 mm (6")

max. speed
1111 m/min

Treatments

flame treatment for
paper and board



corona pre treatment
(40kW on 960mm
operating width) with
22 ceramic electrodes
with patented elastic
mounting system and
with a watercooled
driven ceramic roll

corona pre treatment
with ceramic roll for
film and foil from
sandwich unwinder

ozone treatment for
the melt

Hydraulic Laminator

working width
550 - 850 mm

max. speed
1111 m/min

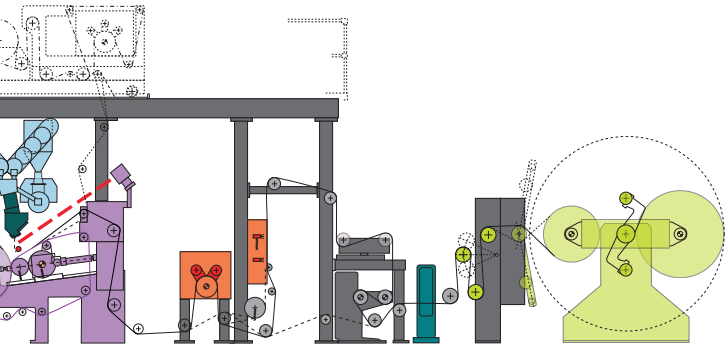
cooling rolls gloss and
matt diameter 900 mm

various pressure rolls
with different diam-
eters (110 - 350 mm)
and hardness (80° -
95° Shore A)

line pressure max. 200
kg/cm linear

 teflon belt

Coating Line



Extruders

Extruder A:

- 3.5" x 32 D
- / output max. 330 kg/h LDPE
- / drive 110 kW
- / heaters 112 kW

Extruder B:

- 2.5" x 30 D
- / output max. 150 kg/h LDPE
- / drive 60 kW
- / heaters 62.5 kW

Extruder C:

- 2" x 24 D
- / output max. 80 kg/h LDPE
- / drive 30 kW
- / heaters 33.5 kW

Extruder D:

- 2" x 24 D
- / output max. 80 kg/h LDPE
- / drive 30 kW
- / heaters 33.5 kW

gravimetric control for all extruders

Feed block, die and measurements

ER-WE-PA | Davis-Standard

310A IV coat hanger die with automatic lip control and thermocouple feedback and automatic die gap variations external decking system with a working width of 550 - 1150mm mm

Thermo SCIENTIFIC

thickness measurement

- / 2 β -sensors for thickness differential measurement same spot
- / FSIR-sensor

in line infrared measurement of the melt temperature

Unwinders

turret unwinder
max. speed 1111 m/min
max. roll diameter 1250 mm

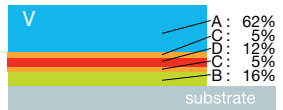
chucks with core diameter 70 mm (3"), 150 mm (6") flying splice

sandwich and auxiliary unwinder

max. speed 600 m/min
max. roll diameter 600 mm

airshaft with internal core diameter 70 mm (3"), 150 mm (6")

Feed Block Inserts





Get in Touch

The extrusion coating line is available for trials for different co-extrusion coating structures, technologies, new polymers and for training sessions.

For further information please contact us at:

Extrusion Coating Technical Service

Postal address

INEOS in Köln
Alte Straße 201
50769 Cologne, Germany

Access route

INEOS in Köln
Hackenbroicherstraße/gate 19
50769 Cologne, Germany

Petra Hollacher

t. +49 221 3555-27530

f. +49 221 3555-28915

m. +49 151 1504 6984

e. petra.hollacher@ineos.com





About us

INEOS is one of the world's largest chemical companies, founded in 1998. INEOS Olefins & Polymers Europe is a leading producer of olefins and polyolefins.

INEOS Olefins & Polymers Europe offers a full range of high value polyolefins solutions for market applications such as food and industrial packaging, pipe and automotive through dedicated sales, and technical service teams.

INEOS is a safe and environmentally responsible company. We are engaged in developing our sustainable agenda to improve our operations and to implement sustainable solutions for our customers. This includes products that offer lightweighting, energy efficiency, durability (extended lifetime) or conservation of resources. We care.



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Please visit our website at www.ineos.com
or contact us at ineospofcsc@ineos.com

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