

SUDPACK

GLASS-FIBRE UV-CIPP LINERS FOR NO-DIG PIPE RENOVATION AND THE IMPORTANCE OF THE INNER TUBULAR FILM FOR THE INSTALLATION

A joint presentation from RELINEEUROPE & SÜDPACK

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SUDPACK

Introduction

Mr. Philipp Büning

- Graduation: Bachelor of Engineering
- Almost 20 years experience in the film industry
- Sales Manager Functional Films









About SÜDPACK Verpackungen GmbH & Co. KG

- We are a leading producer of high-performance films
- Portfolio includes films for food, medical & technical applications
- We are family owned since inception in 1964





SÜDPACK Ochsenhausen



SÜDPACK Erolzheim



SÜDPACK Schwendi



SÜDPACK Bioggio



SÜDPACK Kłobuck (PL)



SÜDPACK Oak Creek (USA)



SÜDPACK Gacé (FR)



Kamakshi SÜDPACK Ltd. SÜDPACK Grootegast (IND)

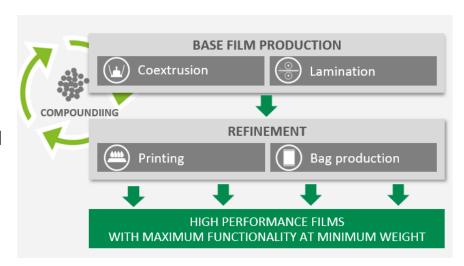






About SÜDPACK Verpackungen GmbH & Co. KG

- Our core technologies comprise compounding, extrusion, lamination, printing, slitting & bag production
- These technologies will be supplemented by recycling capabilities (mechanical & chemical)



BASE FILM PRODUCTION











COMPOUNDING







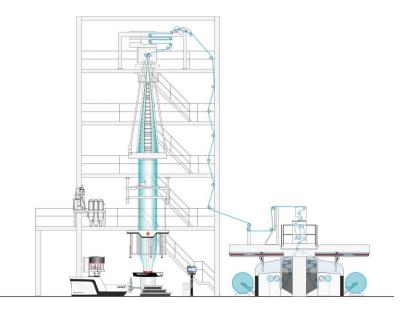
Production with blownfilm extrusion technology – from granulates to film

Raw materials:

Granulates like e.g.:

PE, PP, PA, EVOH, PLA



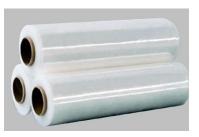


Tubular films

based on multilayer

structures

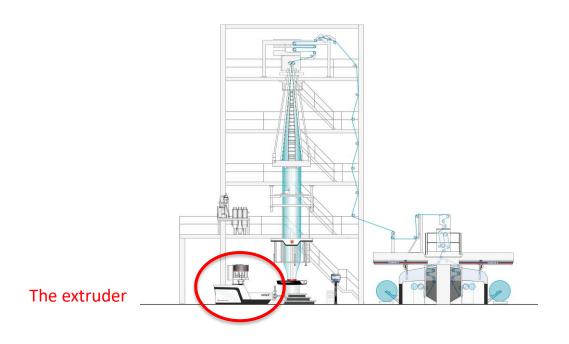
-> up to 11 layers







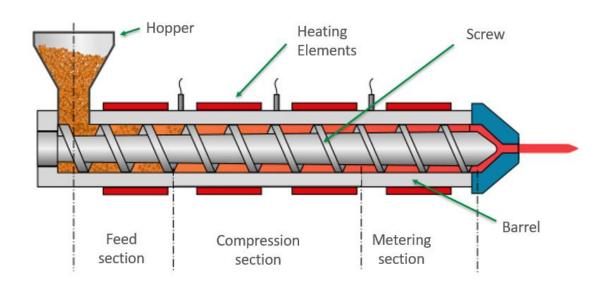
Production with blownfilm extrusion technology – extrusion process







Production with blownfilm extrusion technology – the extruder



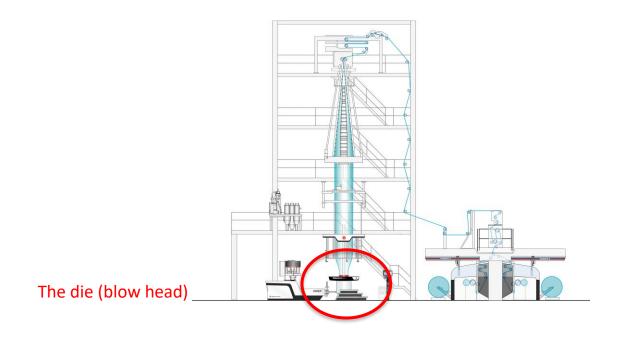
The extruder

- Main function: melting & homogenizing the granulates
- Depending on throughput and the type of polymer requires a different screw design
- One extruder for each layer in the total film structure





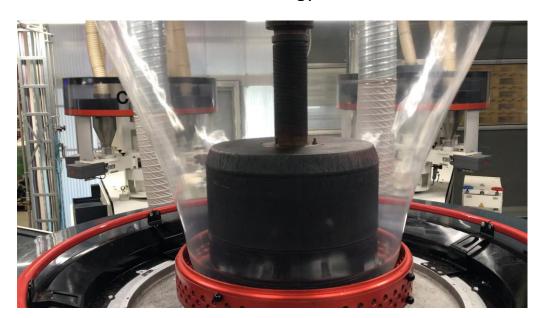
Production with blownfilm extrusion technology – film forming







Production with blownfilm extrusion technology – the die



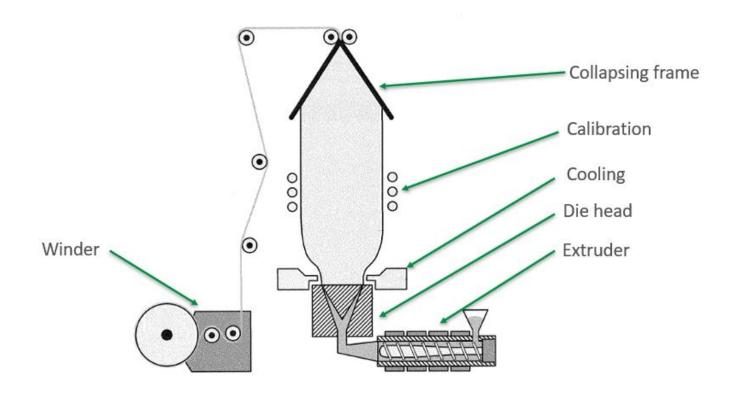
The die (blow head)

- Main function: Forming the film and cooling down the melt
- Distribution of the single layers & ensuring an excellent thickness profile over the circumference of the tube





Production with blownfilm extrusion technology – from film forming to winding







Portfolio inner tubular films – overview & main characteristics

Main characteristics

- Extremely durable and sturdy
- High chemical resistance and barrier function due to direct contact with epoxy resins
- Excellent consistent product quality without any deviations which may lead to weak points

Product range

- Standard thicknesses: 120μm // 150μm // 170μm
- Huge range of width depending on the pipe & liner dimensions
- Main components are polyamide & polyethylene





Thank you very much for your attention!

