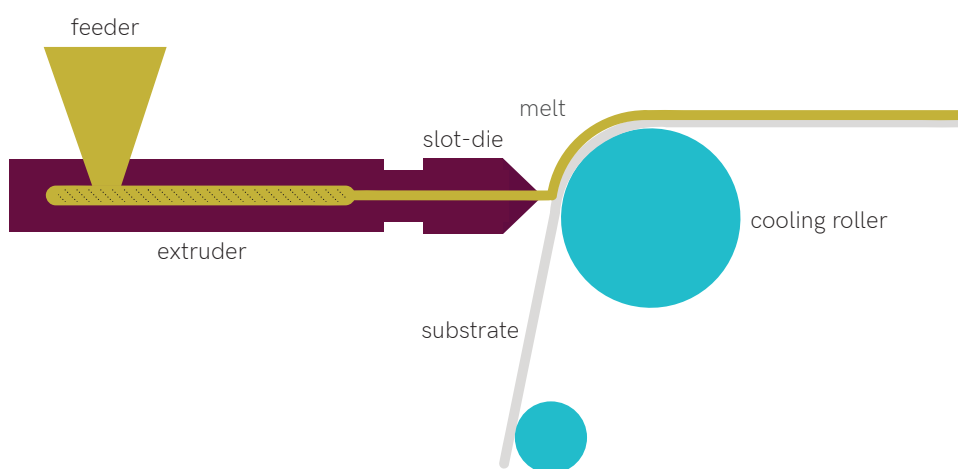


Extrusion Coating

Coating and laminating with extruded materials

To compensate for the limited viscosity (maximum 100 Pas) that can be processed with the hotmelt technique, and to include the processing of commonly applied materials in textiles, such as PP and PET, we have installed an extrusion-coating pilot line. This technique allows us to process materials with a viscosity of 400 Pas or MFI 25 at relatively high temperatures.



Principle :

The extrusion coating process starts at the **planetary roller extruder** (ENTEX) where the polymer pellets are melted and vented. This system allows an excellent blending, a homogeneous heating and low friction. A pump then guides the melt evenly to the **slot-die** where the coating is applied onto the **substrate**. It is also possible to laminate. In the event of highly viscous materials, we temporarily maintain the coating in a molten state to ensure a better penetration by using the infrared field between the slot-die and the lamination unit.

Cooling rollers prevent the textiles from being damaged by the processing heat.

Process conditons :

- Temperatures from 70°C to 200°C
- Viscosity to 400 Pas or MFI 25
- Planetary roller extruder
 - Homogeneous heating
 - Excellent blending
 - Low shear stress
- Coating width : 40 cm
- Substrate width to 50 cm

