

- In-line injection molding without interrupting the extrusion process
- Time-saving procedure (50 % and more), as pellets do not need to be sent to an injection molder. Hence, several material tests can be conducted a day
- Preserved material properties, as the polymer is only melted once, compared to the conventional process

Cross-compatibility: The Brabender SpeciMold can be connected with:

- Brabender Single-Screw Extruders, such as the Stand-Alone Extruder KE 30
- Brabender Twin-Screw Extruders, such as the Lab-Compounder KETSE 20/40
- 3rd party single- or twin-screw lab extruders (Diameter range: 16-30 mm)

Benefits

Brabender®

... where quality is measured.



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Brabender® SpeciMold®

Production of polymer specimens within
a running compounding process

Application

What does it do?

By means of the Brabender SpecIMold, compounders can take a sample of a newly modified formulation that was compounded on any lab scale single or twin screw extruder while the remaining process is continuously running.

In one step, specimens from polymers with or without fillers can now be produced immediately. The created test specimen would be then evaluated for the desired physical properties of the current formulation within the first melting and mixing cycle.

Application

Why is this important?

So far customers would compound a specific formulation, pelletize the material and move some material to a dedicated injection molding machine to mold their samples.

The material would pass a time-consuming process until the test specimens are available for the following tests.

Features

The Brabender SpecIMold features:

- A usable injection volume of around 27 cm³, depending on the specific melt density of the chosen compound
- A compact knee lever closing mechanism with a clamping force of 250 kN (25 T)
- Three individual cooling loops for intense cooling of the mold front and back plate as well as the gearbox
- A Brabender SpecIMold block that can handle up to 600 bar (8700 PSI) injection pressure and can be heated up to 400 °C to handle even the very high temp materials
- User-friendly software: Process parameters can be visualized and stored, easy transition between formulations