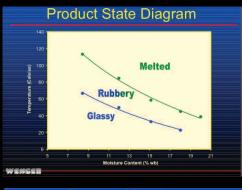
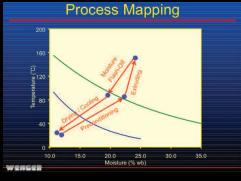


WHAT IT IS:

is a closed-chamber capillary rheometer, which uses a combination of pressure, temperature, time and moisture to measure the T_q and T_m of a biopolymer.

It consists of two sealed chambers, separated by an interchangeable capillary die, that prevents sample moisture loss so testing can be at temperatures far exceeding 100°C. The sample chamber is of fixed volume, and a constant pressure is maintained on the sample throughout the test. The sample movement, which is tracked and recorded during testing, is used to determine the sample's controlling T_{α} and T_{m} .





BENEFITS/ADVANTAGES:

The Wenger Phase Transition Analyzer™ provides knowledge about the T_{α} and T_{m} of a biopolymer that can be directly applied to the extrusion cooking process.

When a sample's T_{α} and T_{m} is combined with a mass and energy audit of an extrusion system, it enables an extrusion technologist to accurately map the process - a valuable aid to troubleshooting and better characterization of the extrusion operation. The Phase Transition Analyzer™ data also has been correlated to important properties of both raw materials and extruded products.

COMPUTER REQUIREMENTS:

- Windows XP, 133 MHz processor (or better).
- 128 MB RAM, 300 MB available hard drive space.
- Color monitor or flat panel HMI with minimum screen resolution of 600 x 800.
- I/O Network card.
- Spreadsheet applications such as Excel or Lotus

UTILITY REQUIREMENTS:

- Compressed air 6 8 bar (90 115 psi).
- Dedicated circuit: 240 Volt, single phase, 50/60 hz, 10 Amp or 120 V, 60 hz, 20 Amp circuit.
- Cooling medium capable of 8 liter/min. (2 gal/min) with operating temperature range of 0 - 40°C (32 –104°F).





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WENGER PLANT AND CORPORATE OFFICES

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