



MELT FLOW INDEX

MFI 2100

Benz MFI gauges flow rates and consistency

The Benz MFI 2100 helps gauge the composition and consistency of plastics, rubber, food, lubricants and numerous other liquid and molten substances.

MFI Identifies Consistency and Material Composition

The MFI 2100 measures the rate of extrusion of molten resins, through a die of specified length and diameter, under prescribed conditions of temperature, load and piston position in the barrel. Measurements are timed.

The MFI 2100 measures thermoplastic flow rates per ASTM D-1238.

It finds inconsistencies in extruded polyethylene pellets, analyzes colloidal density and measures the flow rate of molten recycled resin, which helps define both density and composition.

It computes flow rate over time, and it stores data in Windows-native Benzwin 2000 software. Benzwin 2000 allows the computation of flow rate over time and under different pressures and temperatures. Data analysis is graphically illustrated on a monitor and can be easily printed out.

Its P.I.D. temperature controller, RTD temperature probe and cast heater insure rapid heating and stable constant temperature to the test sample.

Its digital display offers immediate setpoint and shows actual temperature.

Thermo-isolators separate electronic components from heat. This minimizes outside interference, providing more consistent test results and helping prevent system failure. A built-in timer automatically times tests and sounds an end-of-test alarm.

The MFI 2100 can be configured for manual operation per procedure A, or for automatic operation per procedure B.

Optional equipment includes weight application, automatic cutoff, computer system, and customized piston cylinder materials.



- ABRASION TESTERS
- BLOCK OVENS
- BOND TESTERS
- BRITTLENESS TESTERS
- DUROMETERS
- FATIGUE-TO-FAILURE TESTERS
- FLEX TESTERS
- IMPACT TESTERS
- PERMANENT SET TESTERS
- PLASTOMETERS
- REBOUND TESTERS
- RESILIOMETERS
- RHEOMETERS
- SPECIFIC GRAVITY TESTERS
- TENSILE TESTERS
- VISCOMETERS

FRAME

Anodized aluminum and stainless steel.

- Weight: 40 lbs. (18kg)
- Depth: 12" (30cm)
- Width: 10" (25cm)
- Height: 18" (45cm)

TEMPERATURE

- Controllers: P.I.D.
- Probe: RTD
- Range: 100°C to 350°C
- Accuracy: $\pm 0.2^{\circ}\text{C}$

OPTIONS

- Weights available (kg):

0.325	1.0	1.05	1.2	2.16
3.8	5.0	10.0	12.5	21.6
- Automatic loading
- Automatic operation
- Orifice, piston and cylinder in materials other than 52100 steel
- Automatic extrusion cutting device
- Automatic weight lifting and application
- Automatic piston travel transducer
- Computer, Benzwin 2000 MFI program, data storage, customizable templates for test analysis and reports.

Other Benz Testing Instruments

- Tensile Testers • Bond Testers • Abrasion Testers • Falling Weight Impact Testers
- Block Ovens • Demattia Flex Testers • Plastometers • Glassware • Melt Flow Indexes
- Viscometers • ODR Rheometers • Brittlepoint Testers • Specific Gravity Testers
- Durometers • Molds and Dies • Grips and Fixtures • Clicker Presses

BENZ Material Testing Instruments

73 Maplehurst Avenue • Providence, RI 02908

Phone: 401.331.5650 • Fax: 401.331.5685

www.benztesters.com • email: engineering@benztesters.com

Benz Materials Testing Instruments is a trade name for Edwin H. Benz Co., Inc.