



东莞中力仪器科技有限公司

Dongguan Zhongli Instrument Technology Co., Ltd

Tel: [+86-769-33657986](tel:+86-769-33657986)

Fax: [+86-769-33657987](tel:+86-769-33657987)

Website: www.zltester.com

E-mail: Zhongli@zltester.com

Add: No.62, Xinhe Management of Area, Wanjiang District, Dongguan, Guangdong, China

Name: ZL-3014B Automatic Melt Flow Rate Meter



→ **Direct Manufacturer.**

→ **Excellent Quality.**

→ **Technical Innovation.**

→ **Fast Shipping.**

→ **Superior Service.**



1. Product introduction:

This is a high-precision automatic melt flow rate meter tester, used to determine the temperature and load of various plastics and resins when they pass a certain temperature and load in a viscous flow state. It passes through the standard die melt flow rate MFR/MVR value every 10 minutes. It is suitable for engineering plastics such as polycarbonate, polyarylsulfone, fluoroplastics, nylon, etc., which have higher melting temperatures. It is also suitable for polyethylene (PE), polystyrene (PS), polypropylene (PP), ABS resin, poly Formaldehyde (POM), polycarbonate (PC) resin and other low melting temperature plastic testing are widely used in plastic production, plastic products, petrochemical industries and related universities, scientific research units and commodity inspection departments.

2. Implementation standards:

GB/T3682-2000	Thermoplastic melt flow rate and melt volume flow rate determination
ISO 1133: 1997	Thermoplastic melt mass flow rate MFR and melt volume flow rate MVR measurement
ASTM D1238	Thermoplastic melt mass flow rate MFR and melt volume flow rate MVR measurement

3. Product advantages:

- Multi-section (5 sections) temperature control mode, 5 groups of platinum resistance sensors, 5 heating jackets for individual temperature control, high-precision intelligent PID control, and the heating slope, that is, the heating speed can be adjusted
- The temperature resolution is 0.1°C, the temperature uniformity is 0.2°C, the temperature fluctuation within 24 hours does not exceed 0.5°C, and the displacement sensor resolution is 0.001mm.
- Over-temperature protection device
- Manual automatic cutting is integrated, and the cutting time (0~999) and the number of cutting times (0~999) can be set arbitrarily
- The mass method, or volume method, or two test methods can be selected when testing, and the flow rate ratio can be calculated. In both methods, the test is started when the piston rod moves to a certain position.
- Built-in temperature stabilization warning alarm, and add 240 seconds (GB3682 regulation) material warm-up seconds countdown, after the countdown, a beep will sound, and the American standard (ASTM) warm-up time can also be set.
- Built-in a variety of plastic material melt index test conditions, convenient for customers to call and use at any time, reduce tedious workload, and store the last test conditions and results
- Built-in micro printer to facilitate printing test data



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- High-precision touch screen controller, 4.3-inch touch screen, can store and print the latest test conditions and data, the test print menu settings include test time (system default), operator, material name, test method, test conditions (temperature, weight) Code weight, cutting time interval), test result data, test result artificial judgment OK or NG, etc.,
- Reserved RS232 interface or USB interface to connect to the computer, the computer can be used to control the operation of the instrument and transfer and save the test data to the computer.
- The weight can be loaded manually or the ball screw can be driven to rotate by a stepper motor to achieve the purpose of automatically controlling the rising or falling of the top loading weight

4. Main technical parameters:

- Temperature range: 0°C-450°C
- Temperature fluctuation: ±0.2°C
- Temperature uniformity: ±1°C
- Temperature display resolution: 0.1°C
- Time display resolution: 0.1S
- Barrel diameter: $\Phi 2.095 \pm 0.005$ mm
- The length of the discharge port: 8.000 ± 0.025 mm
- The diameter of the charging cylinder: $\Phi 9.550 \pm 0.025$ mm
- Weight accuracy: ±0.5%
- Output mode: micro automatic printout
- Cutting method: manual and automatic cutting
- Test load: a total of 8 levels, 8 sets of weights
- Power supply voltage: AC220V±10% 50HZ

5. List of melt index accessories:

Serial No.	Name	Unit	Quantity	Remarks
1	Host	set	1	With printer
2	Weight	set	Totally 8 levels. 0.325 kg, 1.200 kg, 2.160 kg, 3.800 kg, 5.000 kg, 10.000 kg, 12.000 kg, 21.600 kg	(1# is within level 1 load)
3	Weight tray	pc	1	Within 1st load
4	Piston rod	pc	1	Within 1st load
5	Die	pc	1	Tungsten carbide



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6	Loading hopper	pc	1	Stainless steel
7	Loading rod	pc	1	
8	Barrel cleaning rod	pc	1	
9	Die cleaning rod	pc	1	Stainless steel
10	Gauze	roll	2	
11	Printer paper	roll	2	
12	Other	Qualification certificate, Manual, and a Feeding tray		

Machine certificate:





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Related Machine:

RELATED PRODUCTS



No Rotor Rheometer



Two Roll Mixing
Open Mill



Vulcanizing Machine



Mooney Viscometer



Kneader Mixer



Universal Tensile
Testing Machine



Charpy Izod Pendulum
Impact Tester



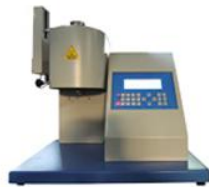
DIN Abrasion Tester



Plastic Extruder



Pipe Hydrostatic Pressure
Burst Test Equipment



Melt Flow Index Tester



Injection Molding Machine



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Zhongli Introduction:

Zhongli Instrument Located in Dongguan, Guangdong, China. It is a collection development, research, production and sales of integrated lab testing machine.

Zhongli attaches great importance on the construction of independent R&D ability and technical force, and has already built up a professional work team possessing independent R&D ability in order to design and produce better products to meet customers' requirements. Our machines adopt advanced technology and have good quality with high detecting sensitivity, strong anti-interference ability, stable performance etc. Customization is available in Zhongli, and our engineers can design drawings for customers to meet special requirements, also we can design and install machines according to different production lines.

We adhere to the conception of "Customer First", regard meeting customers' requirements as a primary goal and contribute to providing perfect products and satisfying services to our customers.



Thank you!