



东莞中力仪器科技有限公司
Zhongli Instrument Technology Co., Ltd

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

Name: ZL-3013 Melt Flow Rate Meter MFR



→ **Direct Manufacturer.**

→ **Excellent Quality.**

→ **Technical Innovation.**

→ **Fast Shipping.**

→ **Superior Service.**



Equipment Overview:

Melt flow rate meter is used to determine the melt flow rate of thermoplastics (MFR; units: g/10min) instrument. For polyethylene, polypropylene, polyoxymethylene, ABS resin, poly-carbonate, nylon, plastics and other polymers fluoride melt flow rate at high temperature determination.

How it works:

Melt flow rate meter is in the specified temperature conditions, with high-temperature furnace to melt the state of the measured object. The molten state of the measured object, the required weight load by gravity out of a certain diameter hole in the test. Plastics in industrial enterprises and scientific research units of production, often with "melt (mass) flow rate" to represent the polymer material in the molten state of fluidity, viscosity and other physical properties. Melt flow rate refers to the extrusive, the average quality of the sample paragraphs are translated into 10 minutes of extrusion volume. Melt (mass) flow rate expressed by MFR, unit: g / 10 minutes (g / min)

Formula: $MFR(\theta, mom) = t_{ref} \times m / t = 600 \times m / t$ (g/10min)

Where: θ - test temperature mom - Nominal Load Kg

m - the average quality of cut t_{ref} - reference time (10min): 600t - cut off time interval unit: seconds.

Example:

A set of plastic samples, a cut every 30 seconds, the quality of the results section: 0.081 g, 0.086 g, 0.081 grams, 0.089 grams, 0.082 grams.

Cut the average quality $m = (0.081 + 0.086 + 0.081 + 0.089 + 0.082) \div 5 = 0.0838 \approx 0.084$ (g)

Into the formula: $MFR = 600 \times 0.084 / 30 = 1.680$ (g / 10 min)

By Industry:

For factories and enterprises and research institutes in the production and research.

Meet the Criteria:

The machine design and manufacture in accordance with the requirements of GB/T3682-2000

Technical Parameters:

Model	ZL-3013
1. Squeeze out some material	



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Discharge port diameter	$\Phi 2.095 \pm 0.005 \text{mm}$
Discharge port length	$8.000 \pm 0.025 \text{mm}$
Loaded barrel diameter	$\Phi 9.550 \pm 0.025 \text{mm}$
Loaded barrel length	$152 \pm 0.1 \text{mm}$
Piston head diameter	$9.475 \pm 0.015 \text{mm}$
Piston head length	$6.350 \pm 0.100 \text{mm}$
2. Standard test load (eight grades)	
1grade	$0.325 \text{kg} = (\text{rod} + \text{weight} + \text{thermal units} + 1 \text{ No. tray body weight})$
2grade	$1.200 \text{ kg} = (0.325 + 2 \times 0.875 \text{ eight})$
3grade	$2.160 \text{ kg} = (0.325 + 3 \times 1.835 \text{ eight})$
4grade	$3.800 \text{ kg} = (0.325 + 4 \times 3.475 \text{ weight})$
5grade	$5.000 \text{ kg} = (0.325 + 5 \times 4.675 \text{ weight})$
6grade	$10.000 \text{ kg} = (0.325 + 5 \times 4.675 \text{ weight} + 6 \times 5.000 \text{ weight})$
7grade	$12.500 \text{ kg} = (0.325 + 5 \times 4.675 \text{ weight} + 6 \times 5.000 + 7 \times 2.500 \text{ weight})$
8grade	$21.600 \text{ kg} = (0.325 + 2 \times 0.875 + 3 \times 1.835 + 4 \times 3.475 + 5 \times 4.675 + 6 \times 5.000 + 7 \times 2.500 + 8 \times 2.915 \text{ weight})$
Relative error of Load Test $\leq 0.5\%$	
Test method	Quality Act (MFR)
Temperature range	Room temperature— 450°C
Temperature accuracy	$\pm 0.2^\circ\text{C}$
Temperature resolution	0.1°C
Timing range	0.1—999 seconds
Timing Accuracy	0.1 seconds
Material cutting method	Automatic or manual way of cutting material
Display	LCS
Print	Equipped with a printer, can print test report
Working conditions	Ambient temperature 10°C — 40°C ; relative humidity 30%—80%
Dimensions	$250 \times 350 \times 510 (\text{L} \times \text{W} \times \text{H})$



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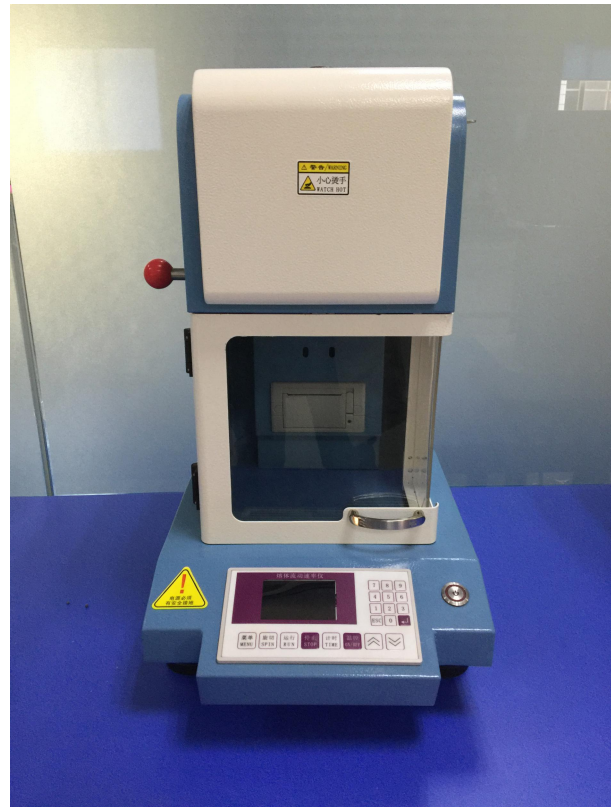
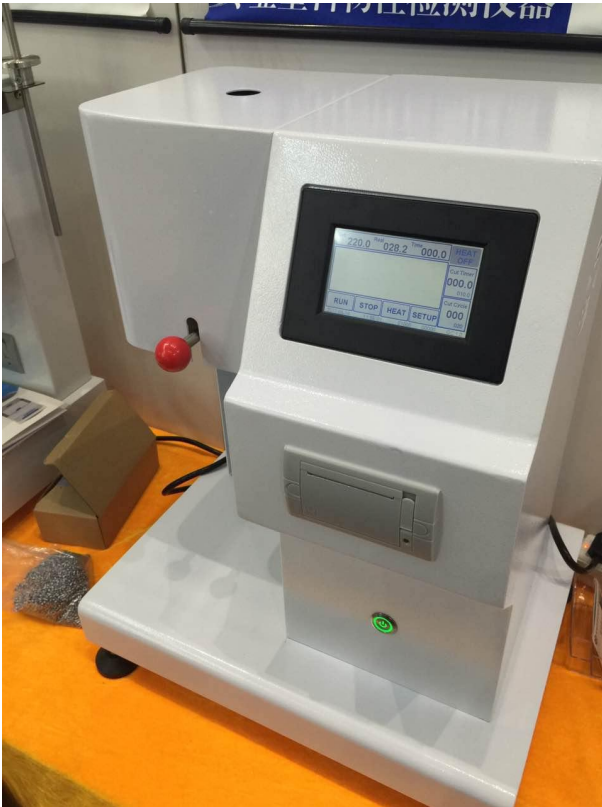
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MVR Test Machine:



PLC touch screen machine which have USB connect with PC:





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Machine certificate:



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.



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Thank you!