

Melt flow rate meter

熔体流动速率仪

**一、Overview of instruments:****一、仪器概述:**

This melt flow rate meter is an improved model, with many functions. It has been greatly improved in instrument configuration, instrument service life, operation convenience and test accuracy, and has incomparable advantages and cost performance compared with domestic general melt flow rate meters.

此款熔体流动速率仪为改良款，增加了众多功能，在仪器配置、仪器使用寿命、操作便利性、测试精度方面有大幅提高，具有国内一般熔体流动速率仪所无可比拟的优势和性价比。

Second, the instrument features:**二、仪器特点:**

1、	The heating cylinder is made of Hastelloy to prevent the melt flow rate meter from being oxidized and rusted at high temperature (up to 400~500 degrees) for a long time. 加热筒采用哈氏合金制作，避免熔体流动速率仪长期在高温（最高可达 400~500 度）
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	下工作氧化生锈。
2、	Dual sensor configuration, accurate temperature control, better temperature gradient and longer service life. 双传感器配置，控温精确，温度梯度更好，寿命更长
3、	According to the requirements of the national standard, a four-minute countdown function is added after feeding. 按国标要求，加料后增加四分钟倒计时功能
4、	RS232 interface, which can be directly connected with computer to output data (optional). RS232 接口，可直接连接电脑输出数据(选配)
5、	Stainless steel weight (optional) 不锈钢砝码(选配)
6、	The last test condition can be displayed directly after starting, which avoids the user resetting the test parameters every time and reduces the workload of operators. 开机后可直接显示上次测试条件，避免每次用户都重新设置试验参数，减少操作人员工作量
7、	The maximum temperature can reach 400~450 degrees (optional, please specify when ordering). 最高温度可达 400~450 度（选配，订货时需特殊说明）
8、	It can test strongly corrosive plastics for a long time without compromising the accuracy of the instrument, such as all fluoroplastics (please specify when ordering because of special materials), and only our company has this technology in China. 可长时间测试强腐蚀性塑料而无损仪器精度，如全氟塑料（因材料特殊，订货时请说明）等全氟塑料，国内仅我公司有此技术

三、meet the standards:

三、满足标准:

ISO 1133, ASTM D1238, GB/T3682

四、product use:

四、产品用途:

It is used to measure the MFR value of melt flow rate of various plastics and resins in viscous flow state. It is not only suitable for engineering plastics with high melting temperature, such as polycarbonate, polyarylene sulfone, fluoroplastics and nylon, but also suitable for plastics with low melting temperature, such as polyethylene (PE), polystyrene (PS), polypropylene (PP), ABS resin, polyoxymethylene (POM) and polycarbonate (PC) resin.

用于测定各种塑胶、树脂在粘流状态时熔体流动速率 MFR 值，它既适用于熔融温度较高的聚碳酸酯、聚芳砜、氟塑料、尼龙等工程塑料，也适用于聚乙烯(PE)、聚苯乙烯(PS)、聚丙烯(PP)、ABS 树脂、聚甲醛(POM)、聚碳酸酯(PC)树脂等熔融温度较低的塑料测试，广

泛地应用于塑料生产，塑料制品、石油化工等行业以及相关院校、科研单位和商检部门。

The melt flow rate meter is applicable to the determination of the specified thermoplastic melt mass flow rate in the national standard GB/T3682-2000 Determination of Thermoplastics Melt Mass Flow Rate and Melt Volume Flow Rate. This standard is equivalent to ISO 1133: 1997 and can meet the ASTM D1238 test standard.

熔体流动速率仪适用于《GB/T3682-2000 热塑性塑料熔体质量流动速率和熔体体积流动速率的测定》国家标准中对规定的热塑性塑料熔体质量流动速率的测定，本标准等同采用了 ISO 1133: 1997 的规定，同时可满足 ASTM D1238 测试标准。

The melt flow rate meter is a desktop structure with reasonable design, stable and reliable performance, beautiful appearance and convenient operation. The high-performance and high-precision control instrument has the characteristics of high sampling accuracy and fast control rate, and the fuzzy PID algorithm is used for constant temperature control.

熔体流动速率仪为台式结构、设计合理性能稳定可靠、外形美观、操作方便, 采用了高性能、高精度控制仪表具有采样精度高, 控制速率快的特点, 使用了模糊的 PID 算法进行恒温控制。

五、Product features:
五、产品特点:

1、	The heating speed is fast, and the overshoot is very small. 升温速度快，超调量极小
2、	High constant temperature precision 恒温精度高
3、	After filling, the constant temperature can be quickly restored. 在填料之后，能迅速恢复恒温状态
4、	The test parameters can be calibrated and corrected conveniently. 试验参数校准并修正方便
5、	Manual and automatic material cutting test methods can be adopted. 可采用手动、自动切料试验方法
6、	Chinese LCD display 中文液晶显示
7、	Equipped with a printer to automatically print out the test results. 配有打印机，将测试结果自动打印输出

六、Main technical parameters

六、主要技术参数

Extrusion discharge part 挤压出料部分	
Diameter of discharge	Φ 2.095 0.005 mm, length of discharge port: 8.000 0.025 mm. Φ2.095±0.005 毫米，出料口长度：8.000±0.025 毫米

port: 出料口直径:	
Diameter of charging barrel: 装料筒直径:	Φ 9.550 0.025mm, charging barrel length: 152 0.1mm. Φ 9.550 $\pm$ 0.025 毫米, 装料筒长度: 152 $\pm$ 0.1 毫米
Diameter of piston rod head: 活塞杆头直径:	9.475 0.015mm, length of piston rod head: 6.350 0.100mm. 9.475 $\pm$ 0.015 毫米, 活塞杆头长度: 6.350 $\pm$ 0.100 毫米
Standard test load 标准试验负荷	(A total of 8 sets of weights) (共 8 级全套砝码)
Temperature range: 温度范围:	Normal room temperature-350°C (customizable) 常规室温——350°C (可定制)
Constant temperature accuracy: 恒温精度:	$\pm$ 0.5°C
Display resolution: 显示分辨率:	0.1°C
Cutting mode: 切料方式:	It can be cut manually or automatically 可选手动或自动切料
Temperature recovery time: 温度恢复时间:	Less than 4 minutes 小于 4 分钟
Print: 打印:	Automatic printout of micro printer 微型打印机自动打印输出
Power supply voltage: 电源电压:	AC220V $\pm$ 10% 50HZ

七、accessory part

七、配件

1	name 名称	unit 单 位	quantit y 数 量	remarks 备注
2	weight	set	1	There are 8 pieces (1# is within level 1 load)

	砝码	套		875g 1835g 2500g. 计 8 件(1#在 1 级负荷内) 875g 1835g 2500g 2915g 3475g 4675g 5000g
3	Weight tray 砝码托盘	piece 件	1	Within class 1 load 在 1 级负荷内
4	装料斗	piece 件	1	
5	Die cleaning rod 口模清理棒	piece 件	1	
6	Charging rod 装料杆	piece 件	1	
7	Barrel cleaning rod 料筒清理杆	piece 件	1	Assembly 组合件
8	piston rod 活塞杆	piece 件	1	(Within Class 1 load) (在 1 级负荷内)
9	Mouth mold 口模	piece 件	1	
10	gauze 纱布	roll 卷	2	
11	form 打印纸	roll 卷	1	

(The above individual parameters may be adjusted) (The pictures are for reference, subject to the real thing)
(以上个别参数有调整的可能) (图片供参考, 以实物为准)

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