

XNR-400-AM Automatic Melt Flow Indexer

(MFR & MVR)

Summary

Model: XNR-400AM

High melt flow rate instrument meter, used for testing all kinds of plastic, resin in the state of viscous flow through a certain temperature and load, every 10 min module and melt flow rate through the standard port MFR/MVR value, it is suitable for high temperature of polycarbonate, aromatic sulfone, fluorine plastics, nylon engineering plastics, can also be applied to polyethylene (PE), polystyrene (PS), polypropylene (PP), ABS resin, polyformaldehyde (POM), polycarbonate (PC) resin with lower melting temperature, such as plastic test, widely used in plastic production, Plastic products, petrochemical and other industries as well as relevant colleges and universities, scientific research units and commodity inspection departments.



Mainly test standards:

- GB/ t3682-2018: determination of melt flow rate and melt volume flow rate for thermoplastics
- ISO 1133:1997: determination of melt mass flow rate MFR and melt volume flow rate MVR for thermoplastics
- ASTM D1238: standard test method for determination of flow rate of thermoplastics melt by extruded plastimeters

Features

- **Multi-stage (3 stage) temperature control mode, 3 groups of platinum resistance sensors, 3 heating sets of separate temperature control, high-precision intelligent PID control, temperature rise slope is adjustable speed**
- **The temperature resolution was 0.1°C, the temperature uniformity was 0.2°C, the temperature fluctuation within 24 hours was no more than 0.5°C, and the displacement sensor resolution was 0.001mm.**
- It has overtemperature protection device.
- **Manual automatic cutting, can be arbitrarily set cutting time (0~999), cutting times (0~999)**
- The mass method, the volumetric method, or both methods can be used in the test, and the flow rate ratio can be calculated. Both methods start the test when the piston rod moves to a certain position.
- **Built-in temperature stability alarm, and increase 240 seconds (GB3682) material preheating seconds countdown, countdown is over, sound prompt, can be set American standard (ASTM) and other preheating time.**
- **Built-in multiple plastic material melt index test conditions, convenient for customers at any time access to use, reduce tedious workload, and store the last test conditions and results**
- Built-in mini printer for easy printing of test data
- Touch screen controller has high precision, 7 inch touch screen, can be stored and print test conditions and data recently, test print menu Settings include test time (the default) system, operating personnel, material name, test method, test conditions (temperature, weight weight, blanking interval) data, test results, test results, the artificial judgement OK or NG, etc.,
- RS232 interface or USB interface is reserved to connect to the computer, which can control the operation of the instrument and save the test data to the computer.
- **The weight can be loaded manually or the ball screw can be driven by stepper motor to automatically control the rise or fall of the loading weight at the top**

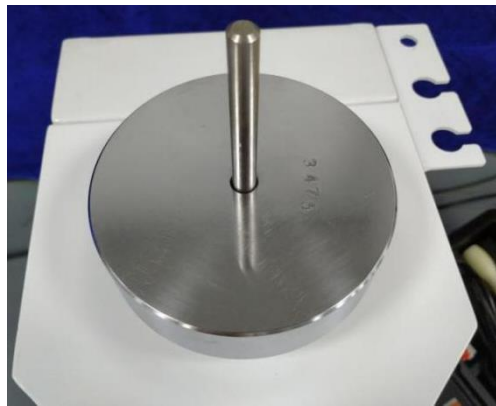
Specifications

Temperature range	40°C-450°C
Temperature drift	4 hours ≤0.5°C
Temperature uniformity of 10mm-70mm above the die	±0.5°C
Temperature fluctuation	±0.2°C
Temperature uniformity	±1°C
Temperature display resolution	0.1°C
Time display resolution	0.1s
Spin the sample time	1~999S, can set on the touch screen
Mouth mold diameter	Φ 2.095 ± 0.005 mm or Φ 1.05 mm± 0.005 mm(optional)
Outlet length	8.000±0.025mm
Charging cylinder diameter	Φ 9.474 ±0.007 mm
Length of piston rod	6.35±0.13mm
Diameter of charging barrel	Φ9.550±0.007mm
Displacement measurement accuracy	0.01mm
Displacement measurement encoder	omron photoelectric rotary encoder
Quality test range	0.1-150g/10min
Volumetric test range	50-800cm ³ /10min
Output mode	micro automatic print output
Cutting mode	manual or automatic cutting
Test load	8 classes, 8 sets of weights
The weights accuracy	±0.5%
Power supply	AC220V±10% 50HZ

Standard accessories

No.	Item	Unit	QTY'	Remark
1	Main machine	set	1	Includes one printer
2	Weights	pcs	8	0.325 kg, 1.200 kg, 2.160 kg, 3.800 kg, 5.000 kg, 10.000 kg, 12.000 kg, 21.600 kg
3	Weight pallet	pcs	1	Within 1 class
4	cylinder rod	pcs	1	Within 1 class
5	mouth model	pcs	1	TUNGSTEN CARBIDE DIE
6	charging hopper	pcs	1	Stainless steel
7	Loading rod	pcs	1	
8	Barrel cleaning rod	pcs	1	
9	Die cleaning rod	pcs	1	Stainless steel
10	Absorbent gauze	pcs	2	
11	Printing paper	pcs	2	
12	Others	pcs	3	Certification, Manual, Feeding tray

Real imagines for your good reference



Software interface: it can transfer the Chinese to English



Test Report

试验数据及报告输出

编号	MFR称重数据	MFR计算结果	MVR测量时间	MVR计算结果
1	0.000	000.0000	00.00	000.0000
2	0.000	000.0000	00.00	000.0000
3	0.000	000.0000	00.00	000.0000
4	0.000	000.0000	00.00	000.0000
5	0.000	000.0000	00.00	000.0000
6	0.000	000.0000	00.00	000.0000
7	0.000	000.0000	00.00	000.0000
8	0.000	000.0000	00.00	000.0000
9	0.000	000.0000	00.00	000.0000
AVG	0.000	000.0000	00.00	000.0000

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Other Accessory Equipment You May Need with the MFI Testing



Plastic Halogen Moisture Analyzer SR-MS Series

Halogen Moisture Meter is the most advanced new plastic fast moisture meter studied and in light of crack, bubbling and shrinking caused by much moisture in raw materials in the control of production, injection molding and moulding technology in current plastic industry, which has no moveable parts outside and needs not to set measuring sample and time.

Electronic Precision Balance SR-AB Series

These series electronic balance utilized the advanced micro-computer controlled technology and high precision sensor technology (magnetic balance), it's the ideal device for fast accurate weighing, widely used in medical research institute, schools, enterprise, road construction and defense department etc.



Digital Solid Density Meter SR-MK Series

This machine used for density determination of rubber, plastic, wire and cable, electrical appliances, sports equipment, tires, glass products, hard alloy, powder metallurgy, magnetic materials, seals, ceramics, sponge, EVA materials, foam materials, alloys, friction materials, New materials, battery materials.



Common Lab Test Equipment for Plastic Related Testing

**SR-101
Universal Tensile Testing Machine**



**SR-JD50
Izod Impact Test Machine**



**SR-XNR400
Melt Flow Index Tester**



**SR-3215
Vicat Softening Point Tester**



**SR-HHL
High Temperature Ashing Furnace**



**SR-HR150DT
Rockwell Hardness Tester**



**SR-MS Series
Plastic Halogen Moisture Analyzer**



**SR-AB Series
Electronic Precision Balance**



**SR-MK Series
Digital Solid Density Meter**



**SR-10-A
Precision Drying Oven**



**SR-GY5
Colour Assessment Cabinet**



**SR-521
Glow Wire Flammability Tester**



**SR-393
UL94 Horizontal Vertical
Combustion Tester**



**SRTH
Programmable Temperature
Humidity Test Chamber**



**SRZY-D
UV Weather Aging Test
Chamber**



**Ux-310
Energy Dispersive X-ray
Fluorescence Spectrometer
(RoHS Halogen-free
Environmental Analyzer)**



**SR-X430
Lab Blown Film Machine**



**SR-X432
Laboratory Cast Film Machine**



After-sales Service



- 1) 12 months product warranty. Free components will be provided if any performance failure occurs within 12 months caused by non-human damage.
- 2) If you face any problems in future during testing process, We will serve as a technical adviser for lifetime, give you a reply within 48 hours and the solution provided within 3 working days.
- 3) We will provide some guidance for the normal use of the machine, and in the case of the machine is not used for a long time, protection guidance provided, then keep the good performance of the machine.
- 4) We can offer operation video and operation manual, also can provide video-conference.
- 5) If necessary, on-site service will be provided, but the transport and travel expense shall be borne by customer.

SUNRISE Factory

SUNRISE continually improved quality, lower cost, and speed manufacturing time to better serve our customer.



We have professional packaging teams and shipping forwarder to pack and deliver your products safely!

1. Out packing: Standard export wooden case.
2. Inner packing: With careful stretch film wrap products, hard wood board + strong bandage to fix corners.
3. Checking teams: Specialized staff to inspect and classified your goods.

