

XNR-400-EM Electric Melt Flow Indexer

(MFR & MVR)

Summary

Model: XNR-400-EM

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: ASTM D1238: standard test method for determination of flow rate of thermoplastics melt by extruded plastimeters

Features

- Multi-stage (2 stage) temperature control mode, 2 groups of platinum resistance sensors, 2 copper heating sleeve separate temperature control, high-precision intelligent PID control, temperature rise slope is adjustable speed
- The temperature resolution was 0.1°C, the temperature fluctuation within 24 hours was no more than 0.5°C, and the displacement sensor resolution was 0.01mm.
- It has the 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.
- The material preheating seconds countdown of 240 seconds (GB3682) can be set. At the end of the countdown, the weight will be automatically loaded and cut automatically after loading to the specified range. The preheating time of American standard (ASTM) can also be set.
- 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
- High-precision touch screen controller, 7-inch touch screen, can store and print the latest test conditions and data, the test print menu Settings include test time (system default), material name, test conditions (temperature, weight, cutting time interval), test result data.
- 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 is placed on the bracket of the weight in advance, which can realize electric loading and unloading and reduce manual operation.**

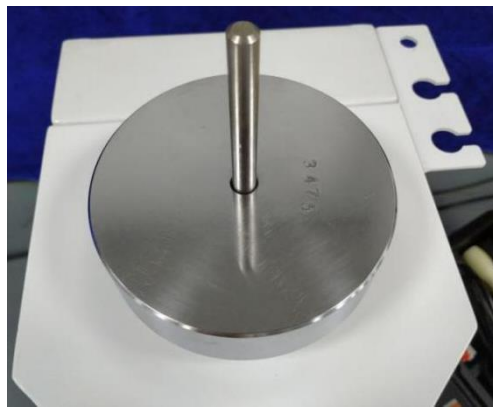
Specifications

Temperature range	40°C-450°C
Temperature drift	4 hours $\leq 0.5^{\circ}\text{C}$
Temperature uniformity of 10mm-70mm above the die	$\pm 0.5^{\circ}\text{C}$
Temperature fluctuation	$\pm 0.2^{\circ}\text{C}$
Temperature uniformity	$\pm 1^{\circ}\text{C}$
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	$\Phi 2.095 \pm 0.005 \text{ mm}$ or $\Phi 1.05 \text{ mm} \pm 0.005 \text{ mm}$ (optional)
Outlet length	8.000 ± 0.025 mm
Charging cylinder diameter	$\Phi 9.474 \pm 0.007 \text{ mm}$
Length of piston rod	6.35 ± 0.13 mm
Diameter of charging barrel	$\Phi 9.550 \pm 0.007$ mm
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	$\pm 0.5\%$
Power supply	AC220V $\pm 10\%$ 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



SUNRISE Factory

Factory SHOW



SUNRISE has the equipment and experience, own R&D and consultant team to meet and exceed your testing requirement. Many of the test equipment we ship to customer include tailor-made features to exactly fit the application customer wants.

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.

4. Mobile/Laptop testers

5. Paper & package testers

6. Abrasion resistance testers

10. Fabric & textile testers

11. Wire testers

12. Other testers



Professional packing

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

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

