

HST-XNR-400EP Melt Flow Index Tester



Note: The picture is for reference only

Instrument overview

It is used to measure the melt flow rate MFR/MVR value of all kinds of plastics and resins under certain temperature and load in viscous flow state every 10min. It is suitable for polycarbonate, polysulfone, fluoro plastic, nylon and other engineering plastics with high melting temperature. Also suitable for polyethylene (PE), polystyrene (PS), polypropylene (PP), ABS resin, polyformaldehyde (POM), polycarbonate (PC) resin and other low melting temperature of plastic testing, widely used in plastic production, plastic products, petrochemical and other industries as well as the relevant colleges, scientific

research units and commodity inspection departments.

Standards compliant

GB/T3682-2018	Determination of thermoplastics melt mass flow rate and melt volume flow rate
ISO1133:1997	Plastics - Determination of the melt mass – flow rate (MFR) and the melt volume – flow rate (MVR) of thermoplastics
ASTM D1238	Standard Test Method for Melt Flow Rates of Thermoplastics by Extrusion Plastometer

Product advantages:

- (1) Multi-stage (2-stage) temperature control mode, 2 groups of platinum resistance sensors, 2 heating sleeves for separate temperature control, high precision intelligent PID control, temperature rise slope, namely temperature rise speed is adjustable.
- (2) The temperature resolution is 0.1 °C, the temperature uniformity is 0.2°C, the temperature fluctuation within 24 hours is not more than 0.5°C, and the displacement sensor resolution is 0.001mm.
- (3) Temperature overtemperature protection device.
- (4) hand automatic cutting one, can be arbitrarily set cutting time (0~999), cutting times (0~999).
- (5) During the test, the mass method, or the volume method, or both test methods can be carried out at the same time, and the flow rate ratio can be calculated. Both methods start the test when the piston rod moves to a certain position.
- (6) Built-in temperature stability warning, and increase 240 seconds (GB3682 provisions) material preheating seconds countdown, after the countdown, a prompt sound, can also set the American standard (ASTM) and other preheating time.
- (7) Built in a number of plastic material melting index test conditions, convenient for customers to use at any time, reduce the tedious workload, and store the last test conditions and results.
- (8) Built-in micro printer to facilitate the printing of test data.
- (9) touch screen controller has high precision, a 4.3 -inch touch screen, can be stored and print test conditions and recent data, print the menu Settings include testing 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.,
- (10) RS232 interface or USB interface is reserved to connect the computer, which can control the operation of the instrument and transfer the test data to the computer.
- (11) The weight can be manually loaded or driven by a stepper motor to rotate the ball screw to achieve automatic control of the top loading weight up or down.

Specification

Melt Flow Indexer	
Temperature range	RT-450℃
Temperature fluctuation	±0.2℃
Temperature uniformity	±1℃
Temperature display resolution	0.1℃
Time display resolution	0.1S
Barrel diameter	Φ2.095±0.005mm
Length of discharge port	8.000±0.025mm
Diameter of charging barrel	Φ9.550±0.025mm
Weights precision	±0.5%
Output mode	Micro automatic print out
Cutting way	Manual cutting automatic cutting integrated
Test load	Total 8 grades, 8 set weights
Power voltage	AC220V±10% 50HZ

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