

UBO

UP-6181A Full Automatic Melt Flow Index Tester



Product introduction:

This high-precision melt flow rate tester is used to measure the MFR / MVR value of various plastics and resins passing through a certain temperature and load in the viscous state every 10 minutes. It is suitable for polycarbonate, polysulfone, fluoroplastic, nylon and other engineering plastics with high melting temperature, as well as polyethylene (PE), polystyrene (PS), polypropylene (P P) ABS resin, POM, PC resin and other plastics with low melting temperature are widely used in plastic production, plastic products, petrochemical and other industries, as well as relevant colleges, research institutions and commodity inspection departments.

Standards:

GB/T3682-2018:Measurement of melt flow rate and melt volume flow rate of thermoplastic
ISO 1133 : 1997:Measurement of MFR and MVR of thermoplastic melt
ASTM D1238:Standard Test Method for melt flow rate of thermoplastics by extrusion
plastometer

Product characteristics:

1. Multi stage (2-stage) temperature control mode, 2 groups of platinum resistance sensors, 2 heating sleeves for individual temperature control, high-precision intelligent PID control, temperature rise slope, namely, adjustable temperature rise speed
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 resolution of displacement sensor is 0.001mm.
3. Over temperature protection device
4. The manual and automatic cutting is integrated, and the cutting time (0 ~ 999) and cutting times (0 ~ 999) can be set arbitrarily
5. The mass method, the volume 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.
6. Built in temperature stability prompt alarm, and add 240 seconds (gb3682) material preheating second countdown. After the countdown, the prompt tone will be given, and American Standard (ASTM) preheating time can also be set.
7. Built in multiple plastic material melt index test conditions, convenient for customers to use at any time, reduce tedious workload, and store the last test conditions and results
8. Built in micro printer for printing test data
9. High precision touch screen controller, 7-inch touch screen, which can store and print the latest test conditions and data. The setting of test printing menu includes test time (system default), operator, material name, test method, test condition (temperature, weight of weight, cutting time interval), test result data, test result data, and human judgment OK or ng, etc,
10. RS232 interface or USB interface shall be reserved to connect the computer, which can control instrument operation and transfer test data to the computer,
11. Set the required weight load in the screen, and the instrument department will select and load the corresponding weight by itself, without manual loading or pin type selection of weight, so as to reduce the workload. After the test, it rises by itself

Main technical parameters:

Temperature range: 40 °C - 450 °C
 Temperature drift: 4 hours \leq 0.5 °C
 Temperature fluctuation: \pm 0.2 °C
 Temperature uniformity of 10 mm-70 mm above the die: \pm 1 °C
 Temperature display resolution: 0.1 °C
 Time display resolution: 0.1s
 Cutting timing range: 1-999s adjustable
 Die diameter: Φ 2.095 \pm 0.005mm (half die 1.05mm + 0.005, optional)
 Outlet length: 8.000 \pm 0.025mm
 Piston rod diameter: 9.474 \pm 0.007mm
 Length of piston rod: 6.35 \pm 0.13MM
 Loading barrel diameter: Φ 9.550 \pm 0.007mm
 Test range: 0.1-150g/10min
 Weight accuracy: \pm 0.5%
 Output mode: micro automatic print output
 Cutting mode: manual and automatic cutting
 Test load: 8 levels in total, 8 sets of weights
 Power supply voltage: AC220V \pm 10% 50Hz

Configuration list:

No.	Name	Qty	Remarks
1	Machine	1	Printer included
2	Weights	1 Set,8 levels:0.325 kg , 1.200 kg , 2.160 kg , 3.800 kg , 5.000 kg , 10.000 kg , 12.000 kg , 21.600 kg	(1# Within level 1 load)
3	Weight pallet	1	Within level 1 load
4	Piston rod	1	Within level 1 load
5	Die	1	Tungsten carbide
6	Charging hopper	1	Stainless steel
7	Charging rod	1	
8	Barrel cleaning rod	1	
9	Die cleaning rod	1	Stainless steel
10	Gauze	2	
11	Printing paper	2	
12	Others	Factory certificate, instruction, discharge tray	