

Melt Flow Indexer

MFI-2322 This type of Melt Flow Indexer is a new and affordable tabletop instrument that tests the melt mass-flow rate (MFR) and melt volume-flow rate (MVR) of a wide range of thermoplastic raw materials, in the form of granules, strips of film etc. This test method is particularly useful for quality control tests on thermoplastics. MVR will be found particularly useful when comparing materials of different filler content and when comparing filled with unfilled thermoplastics. The MFR can be determined from MVR measurements provided the melt density at the test temperature and pressure is known.

Standards

ISO1133, ASTM D1238 method A & B, and other international and industrial specifications.

Features

- A user-friendly color touch-screen allows fast, accurate input of test parameters and providing continuous display of settings during testing.
- Automatic specimen cutting system is used to reduce the human involvement with the machine during the test and increase accuracy and repeatability of test results.
- The built-in microprocessor maintains temperature control to within $\pm 0.2^{\circ}\text{C}$, with rapid ramp-up to the set point. Extruded material is automatically cut off by the built-in scraper mechanism at preset intervals, controllable to ± 0.1 second.
- Supplied completely with the accessories and weights necessary for maintenance and operation.

- Equipped with a motorized weight lifting and lowering device (WLD) that further automates the testing procedure. WLD safely and automatically applies test weights to the piston.
- For more sophisticated data collection, it works with JJ-TEST DMS software, which can store an unlimited amount of test results, the operator can also generate desired test reports.
- Software has the functions of setting parameters, constant temperature control, cutting sample, calibration, setting test time, displaying test datum & result, calculating melt density, as well as checking & printing test datum.
- Password verify is available for some main operations in case of mishandle.

Model	1 MFI-2322S	MFI-2322	MFI-1322
Test method	MFR&MVR (method A, B)	MFR&MVR (method A, B)	MFR&MVR (method A, B)
Display	Color Touch Screen	Color TouchScreen	Color Touch Screen
Specimen cutting	Automatic	Automatic	Automatic
Test loads applied	Motorized	Motorized	Manual
Temperature range	(50-450) °C	(100-450) °C	(100-450) °C
Temperature control	≤0.2°C	≤0.2°C	≤0.2°C
Temperature resolution	0.01°C	0.1°C	0.1°C
Timing accuracy	0.01s	0.01s	0.01s
Displacement accuracy	±0.02mm	±0.1mm	±0.1mm

Model	MFI-1312	MFI-1221	MFI-1211
Test method	MFR (method A)	MFR&MVR (method A, B)	MFR (method A)
Display	Color Touch Screen	Industry screen	LCD
Specimen cutting	Automatic	Automatic	Automatic
Test loads applied	Manual	Manual	Manual
Temperature range	(100-450) °C	(100-450) °C	(100-450) °C
Temperature control	≤0.2°C	≤0.2°C	≤0.2°C
Temperature resolution	0.01°C	0.1°C	0.1°C
Timing accuracy	0.01s	0.01s	0.01s
Displacement accuracy	-	±0.1mm	-

Product Gallery



MFI-1211 (MFR only, LCD display)



MFI-1221 (MFR & MVR, industry screen)



MFI-1312 (MFR only, color touch screen)



MFI-1322 (MFR & MVR, touch screen)



MFI-2322 (MFR & MVR, color touch screen)



Weights & Accessories Box