



**ARTEMIS**  
TESTING INSTRUMENTS

## ART-MFi10-WL

### Melt Flow Indexer inc Weight Loader

Introducing a brand new range of material testing equipment from **ARTEMIS**. Melt Flow Index is one of the most widely used parameters for the quality control of polymers and is the mass flow rate (g/10min) of a molten polymer at controlled conditions of temperature and pressure, extruded through a very precise orifice.

The MFi10 instrument complete with weight loader offered by **ARTEMIS** is the basic entry level Melt Flow Indexer ideal for laboratories that only do occasional testing. Controlled by a 16th Din PID temperature controller and PT100 thermocouple, temperature set points are easily entered and displayed. Sample cuts are taken manually using the supplied cut off knife at timed intervals which can be monitored using the on-board electronic timer. MFI test results are calculated easily by weighing each sample and conducting a manual calculation.

Supplied as standard the **ARTEMIS ART-MFi10** comes complete with tooling to get you started from switch on including a standard discharge piston, test die and 2.16kg test load. To complement the instrument a standard cleaning kit is supplied which includes cleaning rod, test die cleaning tool, cotton cleaning cloth and wire bristled brush. The die go/no-go gauge is also supplied to keep check on the die size and a graduated filling cylinder. Optional anti corrosive cylinder, piston and test die can be supplied if corrosive materials such as PVC is to be tested.

Fitted to the instrument is the optional weight loader. Pneumatically operated to 11bar (150 psi) this is an ideal option when using heavier test loads up to 21.6kg. Weights are mounted on the weight stack so they do not have to be lifted onto the piston each test. Momentary switches are fitted to the control panel for moving the weight loader up and down. A cleaning tool attachment is also supplied for a simple cleaning process between tests.

The apparatus conforms to ASTM D3364, ASTM D1238, ISO 1133, DIN 53735 amongst others

The apparatus can be supplied in either 110-120v 60 Hz and 220-240v 50 Hz.



#### Specifications

- Basic entry level Melt Flow Indexer complete with Pneumatic weight loader
- 1/16 Din PID Temperature controlled
- Temp Range - Ambient to 450 DegC
- Temperature accuracy +/-0.1 DegC
- Thermal stability +/- 0.2 DegC
- Timer resolution 1.0 sec
- Quick change barrel
- Manual sample cut off
- Supplied complete with tooling kit including cleaning tools, levelling device, die go/ no- go gauge, standard test die and piston
- Fully traceable certificate of calibration and instrument user manual
- UKCA/CE Certified
- Dimension (CM) - 61.5W x 37D x 105H
- Net Weight (Kg) - 55

#### Options

- Test Loads 1.0kg to 21.6kg Hastelloy anti corrosive barrel, piston & test die
- Analytical weighing balance