

## Melt Flow Index Tester Micro Digital Model

Melt Flow Indexers are affordable bench top instruments that measure the melt mass-flow rate (MFR) and melt volume-flow rate (MVR) of a wide range of thermoplastic raw materials (granulate).

Melt Flow Index Tester is manufactured as per ASTM D 1238 to measure the flow rates of thermoplastics by extrusion plastometer. This test indicates the uniformity of the flow rate of the polymer

### Significance: (Why this test ?)

The melt flow index tester helps gauge the composition and consistency of plastics, rubber, lubricants and numerous other liquid and molten substances.

### Principle:

Extrusion rate of a resin through an orifice of defined dimensions at a specified temperature and load. Flow rates can be used differentiate grades or provide a measure of degradation of a material as a result of molding. The testing condition are most commonly reported as temperature/load (i.e. 190°C/2.16 kg). The term Melt Index is commonly used in place of the Melt Flow Rate for polyethylene at 190°C/2.16 kg.

### Applications:

- Plastics

### Features:

- Temperature controller : Micro processor based PID controller with temperature range from ambient to 375°C, resolution of 0.1°C and accuracy of  $\pm 0.1^\circ\text{C}$ .
- Timer : Digital programmable with a range up to 59 minutes, 59 seconds and having buzzer output.
- Weights: 1.2 kg, 2.16 kg, 3.8 kg, 5 kg & 21.6 kg.

### Standards:

- ASTM D1238 and D 3364
- ISO1133
- GB/T 3682

### Power :

- 220 VAC, 50Hz Single Phase



### Accessories:

Standard accessories includes

- Orifice,
- Piston,
- Spoon,
- Spanner,
- Plumb line,
- Funnel,
- Material charger,
- Mirror,
- Tweezer,
- Orifice cleaner,
- Barrel cleaner,
- Sample cutter and Accessory stand.

### Dimensions:

- Depth: 250 mm
- Height: 490 mm
- Width: 425 mm

### Weight:

- Net Weight: 35 kgs
- Gross Weight: 60 kgs