



Orion PTS

PRECISION TESTING SOLUTIONS

OR-MFi10

Melt Flow Indexer

V1.01

Introducing a brand new range of materials testing equipment from **Orion-PTS**. 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 offered by **Orion PTS** 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 Orion-PTS **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 compliment 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.

Options for the apparatus include, Pneumatic weight loader and Hastelloy barrel, piston and test die for test corrosive materials such as PVC.

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
- 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 57H
- Net Weight (Kg) - 35

Options

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