

## Melt Flow Indexer MFI - 10

The Davenport melt flow indexer is used to determine the melt flow rate of a polymer by extruding it in a molten state through a calibrated die using a reference weight. The MFI-10 is an intelligent, modular system which offers flexibility of testing and increased automation. The main base unit can be configured for either manual or fully automatic testing.

For those who use the same machine for a given test, a standard test set up may be saved and password protected. Those doing several different tests may save up to 10 set ups and recall them by name. Operators need not be experienced. The backlit LCD gives written instructions at each step with audible prompts at the correct time and results calculated and displayed at the end of the test.

Busy laboratories will save time and improve health and safety by automating the whole process with the addition of the optional displacement transducer and auto weight loading device.

### NEXYGEN™ Analysis Software

NEXYGEN software for the MFI-10 is both easy to use and extremely flexible even for operators having little computer knowledge. The standard program comprises the analysis engine, test graph, results table and batch statistics, test setup editor, and the facility to incorporate results with other Microsoft Windows™ 95/98/2000/NT/XP compliant packages. The MFI-10 categorically outclasses competition for accuracy, repeatability, and reproducibility of results.

### Features

- Calculates melt flow index (MFI), melt flow rate (MFR), melt volume rate (MVR), and melt density/viscosity
- Simple set-up, operation and maintenance
- Standard tests saved and recalled by name
- Complies with BS 2782 Part 7: Method 720A, ISO 1133 and ASTM D1238 Methods A and B
- 10 user definable test methods
- Melt density calculations
- Last test reload option, even when switched off
- Sequential instructions displayed on LCD
- Repeatable and reproducible results
- Heavy-duty, robust construction

### Specifications

Temperature Range:	40°C to 400°C
Temperature Controller:	All systems ±0.1°C accuracy
Warm Up Time:	10 minutes (23°C to 190°C)
Electrical Supply:	230V ±10% ac 50-60Hz Fuses 5A (T) 115V ±10% ac 50-60Hz Fuses 10A (T) Maximum power required: 1KW
International Standards:	BS 2782 Part 7: Method 720A, ISO 1133 and ASTM D1238 Methods A and B. (Method B requires Flow Rate Timer)
Standard Loads:	Calibrated loads are to total value stamped on weight with correct piston: 0.325 g, 1 kg, 1.05 kg, 1.2 kg 2.16 kg, 3.8 kg, 5 kg, 10 kg, 12.5 kg (2 loads), 20 kg (3 loads), 21.6 kg (3 loads)
Corrosion Resistant Barrel and Pistons:	Tungsten Carbide for testing of corrosive materials such as PVC and abrasive glass filled materials.
Thermometers:	90° angle indicating and short range (4° x 0.1°C) mercury in glass
Dies:	Tungsten carbide 2.095 mm (standard supplied with machine) or 1.181 mm (optional)
Die Plug Gauge Go/No Go	2.0904/2.1006 mm with UKAS certificate
Gauges:	Go/No Go gauge with extended handle. 9.543/9.558 mm and 225 mm long supplied with UKAS certificate
Barrel Plug Gauges:	
Pistons (Supplied with Machine):	Standard 100 g for loads <10 kg
Net Weight:	32 kg



Standard Accessories

### Specification Sheet

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