MeP FOR MVR - MFR

TECHNICAL DATASHEET

MeP Automatic extrusion plastometer is an extremely reliable instrument to meet all laboratory requirements, both for quality control and for R & D.

MeP allows the determination of the Melt Flow Rate, basic test to characterize thermoplastic materials, in strict accordance with the International standards, with an automatic procedure.



Technical features:

- Touch screen interface, colour LCD, Settings and data management
  - Display of the last test performed
  - Facility to reject odd values, with reference to either other determinations, or tested material, or both



Reference standards				
ASTM	D1238 Meth. A-B	D2116	D3159	D3364
ISO	1133			
UNI	5640			

Code	Description
10002216	Automatic Extrusion plastometer MeP
10002218	Automatic Hastelloy Extrusion plast. MeP

Hastelloy MeP

A MeP model for the performance of measurements of corrosive thermoplastics is also available. Test chamber, piston and die in Hastelloy are supplied, maintaining the same dimensions (1). Other accessories as per basic model.
(1) For determinations in accordance with standard ASTM D 3364 the optional Hastelloy die Code 10002036 (hole 2.095 mm, length 25.43 mm) is also necessary.

- Integrated microprocessor for test management.
- PID electronic thermoregulation system with microprocessor –accuracy 0.1°C, working temperature: 80° ÷ 400°C.
- Configuration of the test parameters (temperature, pre-heating time, space of acquisition, density of the material, add-on weight): 28 preset conditions.
- Detection of 10 to 50 measurements each sample
- Thermal stability: ±0.2°C in the test area.
- Dimensions and material of the test chamber: Ø 9.55 mm, steel (52/55 HRC).
- Dimensions and material of the piston: Ø 9.474 mm, height of the pressing part 6.35 mm, steel (45/50 HRC), equipped with thermally insulated guiding double collar, weight 0.325 g.
- Dimensions and material of the die: inner Ø of the hole 2.095 mm, length 8 mm, steel (60/65 HRC).
- The instrument is equipped with a cutting device of the extruded material, governed by an electronic timer which activates the blade automatically according to preset times, or operated manually any time, with a push-button.
- Turn-down furnace for easy cleaning

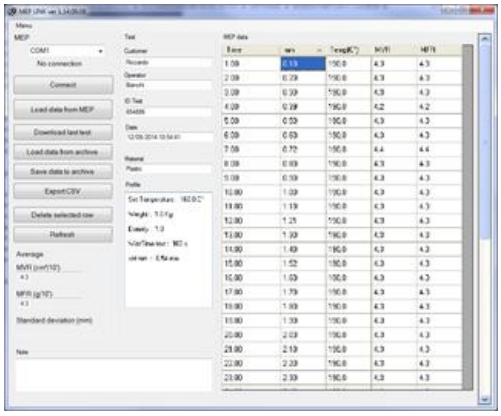
Standard configuration includes:

- Base with adjustable feet for levelling
- Funnel for sample loading
- Tool for sample pressing
- Built-in mirror for the control of the extruded material
- Standard die
- Die cleaning tool
- Scraping tool for test chamber cleaning
- Swabber tool for test chamber cleaning
- Split head tool to accommodate cloth for test chamber cleaning
- Set of spare blades for the cutting device
- USB output for connection to Personal Computer
- Dimensions: 420 x 300 x 800 h mm
- Weight: approx. kg 80
- Power supply: 230V, 50Hz, 0.5 kVA

Optional

MeP Link Software

- Graphic display of the data
- Display of the last test performed
- Facility to reject odd values, with reference to either other determinations, or tested material, or both.
- Calculation of the average value and of the standard deviation of the accepted measurements.
- Data export in csv format (excel compatible)
- Print-out of the current or filed determinations, with average and value and standard deviation



Code	Description
00100107	Mep Link Software

Weights

Code	Dimensions
10002031	g 1835 (for 2160 g)
10002030	g 3475 (for 3800 g)
10002029	g 4675 (for 5,000g)
10002092	g 5000 (add to 10002029 for 10,000g)

Others weight on request

Dies for Melt Flow Rate

Code	Dimensions and material
10002023	Die 2,09 x 8 h mm hole ∅, steel made
10002024	Die 2,09 x 25 h mm hole ∅,steel made
10002019	Die 2,09 x 8 h mm hole ∅, Hastelloy made
10002036	Die 2,09 x 25,43 h mm hole ∅, Hastelloy made, for determinations according to ASTM D 3364
10002015	Die 1,18 x 8 h mm hole ∅, steel made
10002016	Die 1,17 (± 0,01 mm) x 8 h mm hole ∅, steel made
10002018	Die 1,047 x 8 h mm hole ∅, steel made

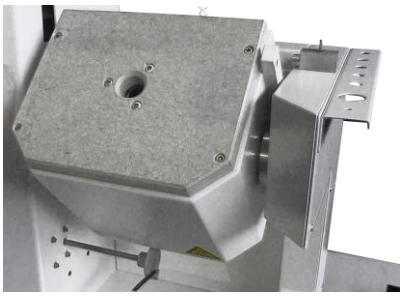
Die for measurement according to method C Available on request.

Control accessories

Code	Description
10002066	Air bubble level
10002074	Go no-go gauge for standard die (inner dia of the hole 2.095 mm ± 0.005, length 8 mm)
01020201	Certificate of calibration go no-go gauge

Cleaning tool

Code	Description
10002069	Cleaning tool for test chamber with scraping head
10002085	60 mm dia. cloth for cleaning device - 500 pcs
10002070	Split head tool to accommodate cloth



Tilting oven to facilitate cleaning of the chamber