

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

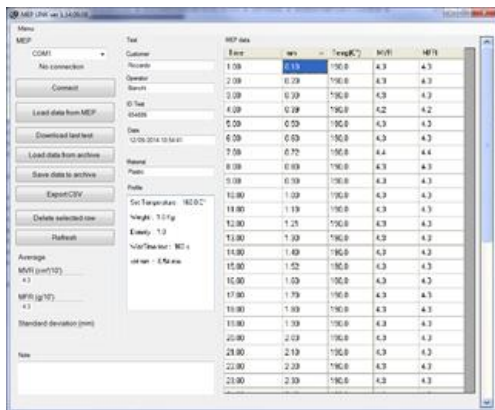
Standard configuration includes:

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