

PW-MFI SERIES

MELT FLOW INDEXERS

MFR and MVR testing. Three levels of automation.

**PW-MFI-ECO**

Manual weight
loading

**PW-MFI-AL**

Automatic weight
loading

**PW-MFI-PRO**

Automatic loading
+ automatic weighing

50–450 °C

TEMPERATURE RANGE

MFR + MVR

ALL THREE MODELS

4.3-inch

TOUCHSCREEN PLC/HMI

Precision at Every Stage.
Confidence in Every Test.

Choose your level of automation.

A common MFR / MVR platform, configured around your workflow.



PW-MFI-ECO

Manual weight loading

Manual placement of the test load, with encoder-based MVR measurement.

Die plug: optional



PW-MFI-AL

Automatic weight loading

Automatic loading of the test weights, with an electromagnetically released die plug supplied as standard.

Die plug: standard



PW-MFI-PRO

Automatic loading + weighing

Automatic weight loading plus an integrated automatic weighing module for MFR testing.

Die plug: standard

CONTROLLED START FOR HIGH-FLOW MATERIALS

Electromagnetically released die plug

The die outlet plug retains high-flow polymer melts during preheating to reduce premature sample loss. Electromagnetic release clears the outlet before measurement.

Optional on ECO. Standard on AL and PRO.

Specifications at a glance.

Thermoplastic melt is extruded through a die at a specified temperature and load.
MFR and encoder-based MVR measurement across all three models.

FEATURE	PW-MFI-ECO	PW-MFI-AL	PW-MFI-PRO
MFR testing	Standard	Standard	Standard
MVR testing	Standard	Standard	Standard
Piston displacement encoder	Standard	Standard	Standard
Weight loading	Manual	Automatic	Automatic
Integrated automatic weighing	—	—	Standard
Temperature range	50–450 °C	50–450 °C	50–450 °C
Touchscreen PLC/HMI	4.3-inch	4.3-inch	4.3-inch
Automatic cutting	Standard	Standard	Standard
Electromagnetically released die plug	Optional	Standard	Standard

STANDARD TEST LOADS · ALL MODELS

0.325 / 1.2 / 2.16 / 3.8 / 5 / 10 / 21.6 kg

Total test loads include the piston. Weight set supplied as standard.

MEASUREMENT PRINCIPLES

MFR

Melt mass-flow rate
Mass of extrudate per unit time.
Reported in g/10 min.

MVR

Melt volume-flow rate
Volume from piston displacement.
Reported in cm³/10 min.

TEST METHODS ISO 1133-1 · Methods A & B | ASTM D1238 · Procedures A & B

Precision at Every Stage. Confidence in Every Test.

THERMOPLASTIC MATERIALS & APPLICATIONS



Polymer resins

Resin granules for incoming material checks.



Recycled materials

Clean flakes and regranulate for batch comparison.



Compounds & products

Coloured compounds, moulded parts and packaging films.

STANDARD EQUIPMENT

MFR/MVR • Encoder • 4.3-inch HMI • Automatic cutting
Test weight set for seven total loads, including the piston.

LET'S DISCUSS YOUR TESTING NEEDS

Talk to PROWHITE.

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