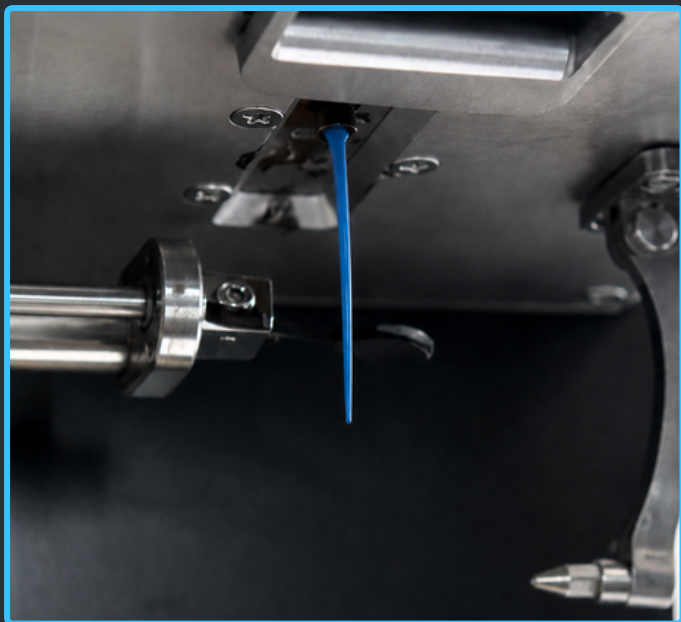


NEWSLETTER

August, 2026



Melt Flow Index Testing: One Number, Five Ways to Get It

August, 2026 – A resin lot arrives with a certificate of analysis reading 12 g/10 min. Incoming inspection runs it and gets 13.4. **Nothing about the polymer changed—the measurement did.**

Melt flow testing is sensitive to temperature control, piston loading, timing, and test consistency. That makes the right melt flow indexer more than a method-capable instrument: **it should help reduce operator-dependent variability.**

QualiFi™ Melt Flow Indexer lineup spans manual, semi-automatic, and automatic models, covering **MFR** and **MVR** testing from 50 to 450 °C and supporting **ISO 1133** and **ASTM D1238**.

Product Highlight

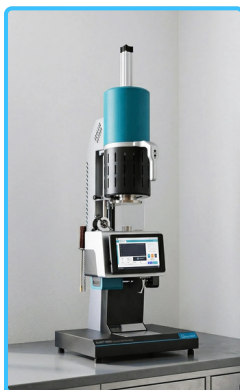
Automatic Melt Flow Indexer (MFI)

QualiFi™ 6000A

Multi-load Protocols and Maximum Throughput.

Feature/Advantages:

- **Pneumatic Workflow:** Adjustable 10–50 kg pneumatic force handles compaction and residual extrusion, taking manual rod technique out of every cycle.
- **Air-Assisted Barrel Cleaning:** Compressed air clears the barrel between runs – the step that normally costs the most time in a high-frequency shift.
- **Guarded at Height:** A weight fall-prevention guard constrains the stack on a 1,450 mm floor-standing frame.
- **Movable Protective Cover:** Located between the furnace body and the loading mechanism, this cover enhances operator safety during operations.



Semi Automatic Melt Flow Indexer (MFI)

QualiFi™ 6000SA

High-frequency QC on high-viscosity or powdered resins

Feature/Advantages:

- **Pneumatic Compaction, 10–50 kg:** A defined force on every charge – the direct fix for run-to-run scatter on high-viscosity resins and powders.
- **Same Measurement Core:** 50–450 °C dual PID, 0.002 mm displacement resolution, 8 stored test plans. Needs a >0.6 MPa air supply.
- **Faster Turnaround:** Pneumatic residual extrusion plus air-assisted cleaning replace push-rod work between tests.
- **Weight Fall-Prevention Guard:** A hardware constraint on the stack that the benchtop 5000 does not carry.



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MFI Melt Flow Indexer

QualiFI™ 5000 Series

Compact Benchtop Automatic — Hands-Free Weight Loading.

Feature/Advantages:

- **Automatic Weight Lifting:** Loads and unloads with no manual handling, so test conditions stop shifting with whoever is on shift.
- **Built for A Crowded Bench:** All-aluminum body, 15° tilt and rotating upper assembly, 555 × 440 × 840 mm.
- **Thermal Discipline:** 50–450 °C, indication error ≤ 0.2 °C, with recovery to setpoint in under 2 minutes after a charge lands.
- **Front-Facing Controls:** 10.1-inch touch screen with live temperature-time and MVR curves.



MFI Melt Flow Indexer

QualiFI™ 2000 Series

Entry-level manual benchtop, in MFR-only and MFR/MVR builds.

Feature/Advantages:

- **Two Variants:** 2000A covers ASTM D1238 Method A for MFR; 2000AB adds Method B for MVR and a micro-printer.
- **100–450 °C PID Control:** Fast heating, quick recovery after filling, upper-limit temperature protection, and a constant-temperature prompt.
- **Manual Loading:** The lowest-cost route to conforming ISO 1133 and ASTM D1238 results for labs that test occasionally.
- **Straightforward Readout:** LCD showing the single-cut value and the average across multiple cuts.



Why the Die Bore Matters

The standard MFR die bore is 2.095 mm across—an oddly specific figure for a metric standard, **until you convert it**. 2.0955 mm is 0.0825 inch, exactly.

The bore was fixed in inches long before ISO 1133 existed and was carried into the metric text unchanged, which is why the defining dimension of the test is written in a unit the standard itself doesn't use.

It matters more than a curiosity. Flow through a capillary scales with roughly the fourth power of its diameter, so a die worn a few hundredths of a millimeter oversize doesn't nudge your MFR — it moves it.

That is why both standards hold the bore to about ± 0.005 mm, and why a die is a wear part, not a fixture.

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Which QualiFi™ Melt Flow Indexer Fits Your Lab?

BEST FOR	RECOMMENDED MODEL	WHY THIS IS THE BEST FIT?
Multi-load protocols and maximum throughput.	QualiFi™ 6000A	Software-controlled weight selection programs multi-stage loads into a single sequence, and the 0.0005 s timer resolves short cut intervals.
High-frequency QC on high-viscosity or powdered resins.	QualiFi™ 6000SA	Pneumatic compaction at a defined 10–50 kg removes operator technique from the charge, and air-assisted cleaning shortens the gap between runs.
A standard QC lab where bench space is the constraint.	QualiFi™ 5000	Automatic weight lifting and the full 50–450 °C dual PID core in a 555 × 440 × 840 mm benchtop unit – automation without surrendering the bench.
Occasional lot checks on a tight budget.	QualiFi™ 2000 Series	Manual benchtop conforming to ISO 1133 and ASTM D1238 across 100–450 °C. Take the 2000AB if you need MVR as well as MFR.



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Why Choose Qualitest for Melt Flow Testing



Global Compliance, Every Tier:

Every QualiFi™ model is built to ISO 1133 and ASTM D1238, with CE marking to EN 61010-1 and EN 61326-1 across the automatic range – the entry unit and the flagship answer to the same standards.



Step Up Without Switching Vendors:

The same measurement core, the same 8 test plans, and the same DMS data software run from the benchtop 5000 to the floor-standing 6000A – and Qualitest finance packages spread the move between them.



Verified, Not Just Claimed:

Consecutive CNAS inter-laboratory proficiency rounds returned satisfactory results with Z-scores held between -0.07 and +0.11. Proficiency data is the only real evidence that a melt flow number travels.



Support Where You Test:

Applications and service support across the USA, Canada, EU, GCC, India, APAC, Africa, and Latin America – including help choosing the die, weight set, and preforming accessories for your resins.

Ready to Trust The Number? Five Models, One Measurement Core.

From a manual benchtop unit for occasional lot checks to a floor-standing instrument that selects its own weights, the QualiFi™ lineup lets you buy exactly as much automation as your throughput justifies – without changing the method, the software, or the standard behind the result.

Explore the full lineup: <https://www.worldoftest.com/melt-flow-tester-indexer-mfi/>

For guidance on configuring the right melt flow indexer for your materials and test frequency: sales@qualitest-inc.com

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