



TORONTECH



MELT FLOW INDEXERS (MFI) / EXTRUSION PLASTOMETERS - TORONMFI™-B

MFI Melt Flow Indexers / Extrusion Plastometers - ToronMFI™-B is a compact, cost-effective tabletop instrument designed to measure the melt mass-flow rate (MFR) and melt volume-flow rate (MVR) of various thermoplastic raw materials, including granules and film strips. It adheres to ASTM D1238 and ISO 1133 standards, making it particularly valuable for quality control testing in thermoplastics.

APPLICATIONS

MFI Melt Flow Indexers Extrusion Plastometers - ToronMFI-B

MFI Melt Flow Indexers Extrusion Plastometers

- **Plastics & Polymers Industry** - Measurement of both melt mass-flow rate (MFR) and melt volume-flow rate (MVR) of thermoplastic raw materials such as granules and film strips to ensure processing consistency.
- **Packaging Industry** - Evaluation of plastic films, sheets, and packaging products for extrusion and molding performance.
- **Automotive Industry** - Flow property testing of thermoplastic materials used in automotive components to guarantee moldability and quality.
- **Electronics & Consumer Goods** - Characterization of polymers used in casings, components, and precision-molded parts.

- **Textile & Fiber Industry** - Verification of polymer resins and granules intended for synthetic fiber and filament production.
- **Research & Academia** - Advanced material analysis in laboratories and universities for education and polymer research.
- **Independent Testing & Certification Labs** - Standardized MFR and MVR testing in compliance with **ASTM D1238** and **ISO 1133** for certification and quality assurance.

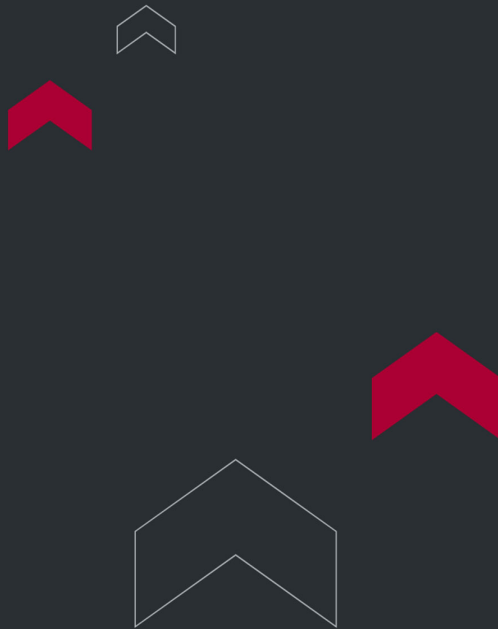
FEATURES

1. Equipped with a user-friendly panel for quick input of test parameters, real-time test monitoring, and result display. A built-in printer allows for easy result printing.
2. Measures both MFR and MVR using a calibrated die under a set force at a constant temperature.
3. Features encoder-monitored piston displacement, enabling data storage and printing when needed.
4. Comes fully equipped with all necessary accessories and weights for seamless operation and maintenance.

TECHNICAL SPECIFICATIONS

Parameter	Specification
Temperature Control Range	50°C - 450°C
Temperature Accuracy	+/-0.5°C

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Temperature fluctuation	$\pm 0.5^{\circ}\text{C}$
Temperature display error	$\leq \pm 0.2^{\circ}\text{C}$
Temperature Recovery time	<4min
Displacement Accuracy	$\pm 0.02\text{mm}$
Measurement range	(0.1g -100g)/10 Min (MFR) / 0.01 -350cm ³ /10min(MVR)
Voltage	220V 50HZ/60HZ (110V is also available)



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