

TECHNICAL BROCHURE

AUTOMATIC THICKNESS TESTER

PLASTIC FILM VERSION

model ME-21.ng

Thickness is a fundamental property for the specification, commercialization, and quality control of plastic films. It directly influences characteristics such as uniformity, mechanical strength, and machinability during converting and packaging stages.

The ME-21.ng was designed to perform thickness testing with high accuracy and reliability, complying with the main international technical standards. Equipped with an intuitive touchscreen interface and automatic measurement features, the equipment minimizes operator influence and ensures repeatable and reproducible results.

KEY FEATURES

- » **Robust construction designed for long-term reliability**, ensuring consistent performance in laboratory and industrial environments.
- » **Application-driven equipment and software development**, ensuring maximum accuracy with a user-friendly and intuitive interface.
- » **10.1" touchscreen display** providing clear and immediate visualization of results.
- » **Sample presence sensor** that speeds up test execution.
- » **USB-C port and built-in thermal printer** for immediate and convenient export or printing of results.
- » **Regmed equipment**: a global reference for over 65 years in laboratory solutions for physical testing of pulp, paper, and packaging materials.



MAIN APPLICATIONS

- » Evaluation of plastic film uniformity and thickness profile
- » Dimensional stability control in extruded films for printing and converting
- » Verification of uniformity and machinability in flexible packaging
- » Evaluation of dimensional variations in film extrusion lines
- » Verification of dimensional compliance between production batches and customer technical specifications



TECHNICAL STANDARDS

- » ASTM D374
- » ASTM D2103



Brochure covering the plastic film version. The ME-21.ng is also available in paper, paperboard, tissue, and corrugated board testing versions.

** Due to continuous development, this equipment is subject to change without prior notice.*

DIMENSIONS



SPECIFICATIONS

Measuring range	(0 to 10.000) mm
Resolution	0.001 mm
Test units	mm / μ m / in / mil
Applicable technical standards	ASTM D374 and ASTM D2103
Pressure	70 kPa
Contact area	0.73 cm ²
Descent speed	1.5 mm/s
Contact time	3 s
Power supply	220 VAC, 50/60 Hz, single or two-phase, 200 W
Weight	19 kg

Applicable to plastic films with thickness from 1 to 2,000 μ m.

Features multilingual software (English, Spanish, and Portuguese), USB-C serial output for data transfer, built-in thermal printer, memory storage for the last 500 test reports, and search function by date, user, or product.

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ADDITIONAL IMAGES



10.1" touchscreen display

Intuitive interface that simplifies operation, speeds up test setup, and provides clear and immediate visualization of results.



Presence sensor

Sample presence sensor that speeds up test execution and prevents incorrect activation.



USB-C output

Modern connection that simplifies data export, allowing test results to be processed and analyzed using data analysis software.



Built-in thermal printer

Allows immediate printing of results, facilitating record keeping, traceability, and laboratory documentation.

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