TECHNIDYNE

Technidyne
ACA Permi Lab LP300

INDUSTRIAL PHYSICS

Protecting
Product Integrity

Technidyne ACA Permi Lab LP300

The ACA Permi Lab LP300 is a modern and user-friendly air permeance analyzer for low porous materials. Fast and accurate, the Permi Lab LP300 air permeability analyzer is designed for laboratory testing of fiber-based packaging materials.

Advanced air permeance analysis for fibre-based packaging

The ACA Permi Lab LP300 is a modern, user-friendly air permeance analyzer designed specifically for low-porosity fibre-based materials. Ideal for laboratory testing so users can achieve precise, reliable data analysis for packaging substrates and barrier materials.

High-speed, high-accuracy and compact air permeance analyzer

Delivering results in under 15 seconds – even for low-permeability substrates – the ACA Permi Lab LP300 enables rapid quality checks and dependable R&D support. Its compact design is tailored for laboratory environments, while offering broad measurement capabilities.

Versatile air permeance measurements across fibre-based substrates

Fast and highly accurate, the ACA Permi Lab LP300 is optimized for R&D and quality control across a wide range of fibre-based applications, including:

- Coated paper and board
- Grease-proof papers
- Cable and technical papers
- Breathable films and membranes
- Battery separator films
- Filters and specialty substrates

Technical Specification:

Measurement Range	100 – 20,000 pm/ Pa.s
Measurement Principle	Pressurized air flow through sample
Measurement Pressure	20 kPa, or user selected between 1 – 20 kPa
Measurement Time	Under 15 Seconds
Measurement Area	50 cm^2
Accuracy	+/- 2% over the sensor range
Display	Touch Screen
Electric Connection	230 VAC/50Hz / 110 AVC 50/60Hz
Weight	18 kg
Dimensions	(W) 360 mm x (H) 340 mm x (D) 290 mm

Importance of measuring air permeability of fibre-based materials

Air permeance directly impacts a material's ability to resist moisture, oxygen, and gas transmission – critical factors in shelf life, product integrity, and barrier performance.

Efficient alternative to traditional barrier testing

The ACA Permi Lab LP300 demonstrates strong correlation with conventional barrier property tests, making it a cost-effective solution for preliminary screening and material development. It reduces the need for time-consuming methods while maintaining high data integrity.

The ACA Permi Lab enables manufacturers, converters, and R&D teams to:

- **Evaluate barrier properties** with high sensitivity, especially in low-porosity materials where conventional testers may fall short
- **Optimize material strength and consistency** by identifying permeance variability that could affect mechanical performance
- **Support product protection goals** through accurate assessment of air, moisture, and gas resistance

Features & Benefits:

- Fast, repeatable measurements – excellent for quality control and R&D
- Designed for laboratory testing of fiber-based packaging materials with barrier requirements
- Measures up to 10× lower porosity than standard testers
- Compact, lab-ready design
- Operator independent due to automatic measuring procedure
- Excellent repeatability due to fixed capture time
- Easy to calibrate
- Low maintenance requirements
- Supplied with software, calibration plates and user manual

Ordering Information:

Article Number	Article Description
ACA-LP300	Technidyne ACA Permi Lab LP300

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