

SMOOTHNESS, POROSITY & SOFTNESS TESTER

(BENDTSEN TYPE WITH MANUAL MODEL)

CATALOGUE NO.: GEC-P40113-C

Smoothness, Porosity & Softness Tester is an advanced instrument based on rotameter airflow principle for measuring the smoothness, porosity, softness and air permeance of paper and board using the Bendtsen method. Roughness of paper or similar material is defined as the volume of air that forced by a specified pressure difference escapes in unit time by passing between the surface of the specimen and flat metal ring resting on a specimen.

Test Description:

Bendtsen Roughness is achieved by clamping the test piece between a flat glass plate and a circular metal surface, measuring head on the test piece, a controlled and small air pressure pass through a flat metal ring and the specimen. The pressure difference read off on selected rotameter tube based on air leak principal. Bendtsen Air Permeance is measured as the mean airflow through an area of 10 cm² of the test piece clamped between circular gaskets. Measuring starts automatically and the result can be read after approx. 5 seconds. The flow-rate is measured by means of 3 rotameter tubes.

APPLICABLE STANDARDS :

**TAPPI UM535, SCAN P21, P60, BS 4420,
ISO 5636/3, 8791/2, DIN 53108**

Salient Features:

- Imported three Rotameter Tubes.
- Includes roughness and porosity measurement head.
- Including weights for hardness test and plan weight.
- Test piece area measured is 10cm².
- Specially designed reciprocating Compressor.



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