



Gurley Smoothness Tester & Densometer

This unit measures the air permeability and smoothness of many different types of sheet materials. The Gurley Smoothness Tester & Densometer combines the capabilities of textile, standard and high-pressure densimeters, S-P-S testers as well as programmable digital timers.

Applications

- Manufacturing and printing – to control the selection of materials affording the appropriate degree of liquid (ink, varnish, sizing) absorption
- Testing filters, porous bags and materials where controlled porosity is essential
- Testing insulating materials for air resistance
- As a supplement to other physical tests, enabling regulation of manufacturing process to give the desired formation, appearance or strength, there being a close correlation between air permeability and the other properties of a material



Model 4340N
Automatic Densometer & Smoothness Tester

Overview

Model 4340N differs from the traditional manual densimeters in several ways:

- It uses up-to-date mass flow and servo-regulator technology to provide a quick, accurate, oil-free test
- Its pneumatic cylinders ensure a consistent clamping pressure and an automatic test feature, enabling a sample to be tested several times without the test area having to be opened continually and closed manually
- The addition of an auto-drive mechanism enables the number of tests as well as the span that they are tested over to be programmed. A sheet or strip of paper can then be analysed automatically and with outputs in either Gurley seconds, Sheffield, Bendsten or Bekk equivalent seconds
- It uses several state-of-the-art mass flow meters and a servo-regulator so that both low- and high-flow materials can be tested accurately between 0 and 50 Gurley seconds

Features

- Air permeability and smoothness testing with one instrument
- Automatic and manual testing
- Rapid results
- Automatic sample transport
- RS-232 interface and printer connection



TENDRING *pacific*

Norfolk House, Great Chesterford Court, Great Chesterford, Essex CB10 1PF

T: (44) 0870 240 1886 F: (44) 0870 240 1887

E: sales@tendringpacific.com

www.tendringpacific.com

Gurley Smoothness Tester & Densometer

- Statistical analysis of results including:
 - Air permeability
 - standard Gurley (corresponding Model 4110, 4190)
 - low-pressure Gurley (corresponding Model 4118)
 - high-pressure Gurley (corresponding Model 4150, 4250)
 - calculated Sheffield units
 - calculated Bendtsen units
 - Smoothness
 - standard Gurley
 - calculated Sheffield units
 - calculated Bendtsen units
 - calculated Bekk units

Physical specifications

Dimensions

23.5 × 40 × 32 cm (W × L × H)

Net weight

13 kg

Options

- Compressor and air filter/regulator/dryer combination
- Dot matrix printer, roll fed
- Interchangeable orifices (1.0 standard, 0.25 and 0.10 sq in optional)

Performance data

Power requirements

220 V, 50 Hz

Air supply

Requires at least 4.5 bar

Requirements

- Instrument air – minimum 4.5 bar
- Power – switchable 110/220 V

Standards

ISO 5636/5, BS 5926, CPPA D-14, SCAN P19, P53, APPITA/AS 1301-420, TAPPI T-460, T-490, T-536-88, ASTM D726-5, D202-77



TENDRING *pacific*

Norfolk House, Great Chesterford Court, Great Chesterford, Essex CB10 1PF

T: (44) 0870 240 1886 F: (44) 0870 240 1887

E: sales@tendringpacific.com

www.tendringpacific.com