



Bending Resistance Tester

Model 79-56

Bending Resistance Tester

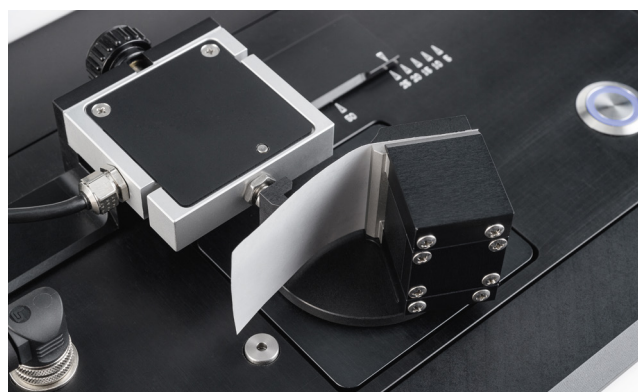
The 79-56 is a user-friendly microprocessor controlled instrument designed to determine the bending resistance of paper, paperboard, plastic film, medical tubing and wire.

The 79-56 can perform five tests: Score Bend, Score Perforation, Break Force, Taber Stiffness, Bending Resistance, and Spring Back.

Bending stiffness is a characteristic associated with the rigidity of a material. This property is related to the modulus of elasticity of the material's stiffness. The 79-56 was developed to produce a more concise, consistent measurement for the paper industry but is also used in a variety of industries including personal products, paper, films, packaging and non-wovens.

The two-point testing method secures the specimen into a pneumatic clamp and bends the sample up to 90° against a force transducer.

What makes our 79-56 instrument so unique is its versatility and accuracy. Bending forces are measured at selectable bending angles from 5.0 to 90°. The instrument is available with a 100 or



Technical Specification:

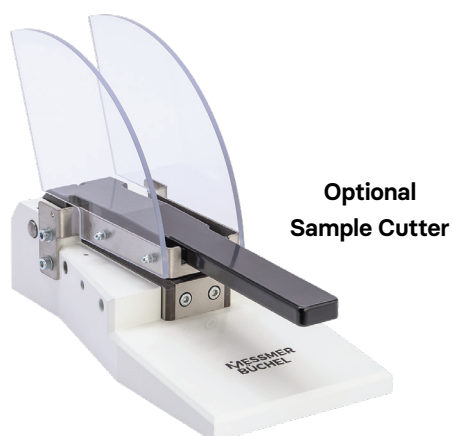
Measuring Units	Mn, Nmm, Taber
Ranges	0–1000 mN or 0–10 mN (Please specify)
Min. Force Sensitivity	0.5 mN with 1000 mN Load Cell
Accuracy	+/- 1 % & ± 0.1 degree
Specimen Width Bend Angle	Up to 38 mm, 4 mm opening 5.0 – 90.0 degrees (selectable in 0.1 steps)
Speed	5° / Second
Bending Length	Motorized setting with 7 automatic stops
Bending Positions	1 mm, 5 mm, 10 mm, 15 mm, 20 mm, 25 mm, 50 mm
Clamp	Pneumatic operated, 38 mm wide with 4 mm gap.
Electronic Output	GraphMasterTM compatible RS232 serial data output with 9 pin, printer output and optional analog signal output
Standards	ISO 2493 AS/NZ 1301-4535 BS 3748 DIN 53121 SCAN P29 TAPPI T556
Electrics	110 V/60 Hz or 220V/50 Hz
Air	6 mm OD Plastic Hose
Weight	20 kg / 44 lbs
Dimensions	(W) 490 mm x (H) 260 mm x (D) 425 mm

Hardware Features:

- Direct sample to load cell contact for accurate measurement
- Easy selection of test parameters from a comprehensive range through a setup menu
- Motorized test length setting
- Pneumatic clamps with fast release provide consistent clamping pressures for fast, repeatable results
- Large, clear display showing peak value and angle
- Load cells are fitted with overload protection
- Direct data output via RS-232 to printer or optional
- GraphMaster™ analysis software
- Calculates Taber Stiffness, Youngs Modulus, Gurley
- Can be directly calibrated to traceable national standards

Features & Benefits:

- Very flexible for performing different types of tests and for different standards
- Pre-certified weights and sample cutter options
- Ability to add special formulas to meet unique bending stiffness requirements
- Competitive advantages for accuracy and usability
- Motorized testing and pneumatic clamping eliminates operator influence



Disclaimer

The information contained in this document is liable to modification from time to time in the light of experience and our policy of continuous product development. Check the Industrial Physics website for the latest version.



Optional GraphMaster™ Software

Graphmaster™ Features:

- One click on the Database feature allows the operator to select a favorite format to save critical test information using Microsoft® compatible programs such as Clipboard®, Excel® or other standard file types
- The software automatically captures, graphs and reports force, position and time during a testing sequence
- A library of calculations is available to report commonly used test results based on international standards
- GraphMaster™ test reports include single and multiple test curves, sample information and statistics
- GraphMaster™ software includes a language database of 8 languages to select; additional languages can be easily added by request

Ordering Information:

Article Number	Article Description
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Contact Details

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