

SOFTOMETER KWS

for measuring the suppleness of leather, textiles, nonwovens, synthetic leather, rubber, cardboard, paper, plastics and other **limp materials** under defined conditions in a comparable and standardized way. Suitable for normal quality testing and for scientific and technical investigations. (Applicable Standards see overleaf!)

From the fact that several properties of a material are responsible for the softness, it was important to find a comparative magnitude. One found out that the flexural rigidity test is decisive.

Technical Data:

Available are three models:

SOFTOMETER KWS-500

Measuring range 0 ... 500 mN, resolution 0,5 mN

SOFTOMETER KWS-2000

Measuring range 0 ... 2000 mN, resolution 1 mN

SOFTOMETER KWS- 20K

Measuring range 0 ... 20000 mN, resolution 10 mN

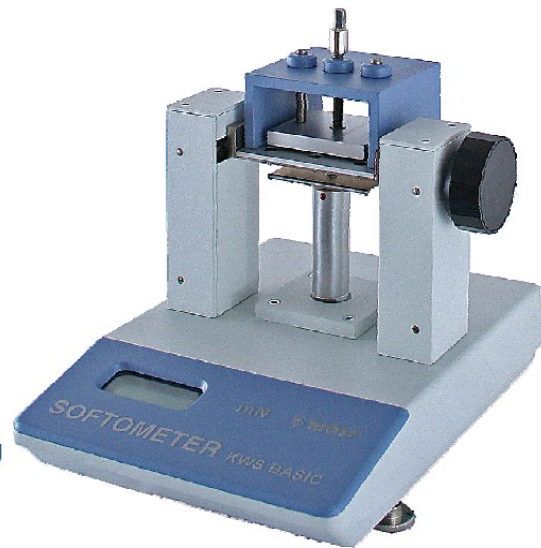
Specimen: 75 x 50 mm
Free bending length: 15 mm
Display: digital, 13 mm LED
Bending angle: 30°
Programs: 2, selectable
read-out at once
read-out after 10 s.

Design: Enclosed all-metal casing
with protective surface finishing

Dimensions (HxWxD): 225 x 180 x 280 mm

Weight: 2.4 kg

Mains connection: 230 V AC 50 cps.



Measuring principle

(see Functional sketch)

The air-conditioned specimen is so chucked in the fixture that it projects by a defined measure. Upon operating the adjusting knob the specimen is bent at an angle of 30° and placed at the calibrated force sensor. The occurring force as measure of flexural rigidity is electronically measured and displayed in a digital form.

Interface RS 232 for transferring data in a PC.

