Titer Tester - Vibroskop 400

The Vibroskop 400 is an automatic instrument for the determination of the titer (dtex, den) of single fibers. By an advanced and patented approach of the vibration method (Vibroskop method) it assures best accuracy and reliability and it eliminates the influence of the operating personnel.

Vibroskop 400 meets all international standards (ASTM, BISFA, ISO, DIN, ...). It is one button operated with ergonomic, easy to read displays. In most installations, Vibroskop 400 is used in combination with the tensile tester Vibrodyn 400 to create efficiently complete tests with individual titer, tenacity and elongation results giving reliable quality feedback.

Scope

Electronic instrument for automatic determination of the titer (linear density, fineness, denier, dtex) of single staple fibers and monofilaments by means of the vibration method.

Method

Prior to a test, the appropriate pretension weight has to be chosen and set on the instrument. Then a fiber with a pretension weight is loaded into the instrument.

By pressing the operation button shortly the measurement is initiated - the fiber is set into its natural vibration by an electronic delta impulse. The titer is derived from the fiber's vibration frequency. The automatic measurement assures easiest handling, minimum influence of the operator and therewith best accuracy and repeatability.

Technical specifications

Range

0.33 - 200 dtex

Fiber length

Minimum length is 28mm

Result display

Digital, easy to read 4 digit read out in either dtex or denier

Accuracy:

+/- 1%, surpasses the specifications of ASTM, BISFA and DIN Standards

Repeatability

Better than 1%

Accessories (included):

- 6 Vibroclips
- Calibrated better than 0,5%
- Working pad
- Tweezers

Evaluation software

Providing display of linear density in dtex/denier, histograms with the corresponding printouts.

Data output

For on-line connection to IBMor compatible personal computer through a Lenzing interface including Lenzing test software.

Main supply:

220/110 V ± 10%,

50/60 Hz, 40 W

Dimensions:

Height: 550 mm

Width: 410 mm

Depth: 570 mm

Weight: approx. 21,5 kg