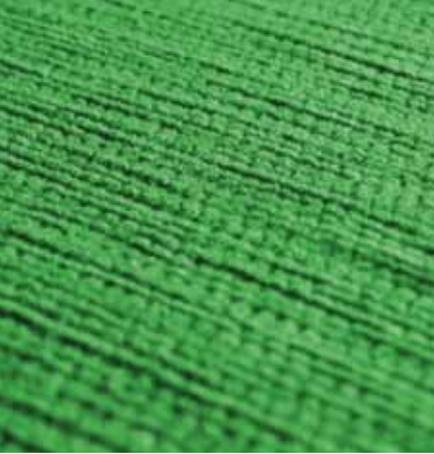


Textechno
textile testing technology



COVAFIL+
Capacitive Evenness Tester for Filament Yarns



COVAFIL+
Capacitive evenness tester
for filament yarns

The mass variation is one of the most important quality parameters of filament yarn. Textechno's COVAFIL+ with its novel capacitive sensor design and a self-threading high-speed yarn twister meets all requirements for an effective and reliable quality control system.

The COVAFIL+ can either be operated as a stand-alone unit or in combination with Textechno's well-proved filament yarn testers DYNAFIL ME+ and COMCOUNT, which gives highest testing efficiency and flexibility. The latter setup of testing instruments gives you - apart from tensile strength and elongation - all relevant yarn parameters with just one test system.



COVAFIL+
Capacitive evenness tester for filament yarn

Technical Data

Test methods

- Measurement of mass variation with constant twist, speed, and pretension (standard test)
- Measurement of mass variation with variable twist, constant speed and constant pretension to conveniently establish the optimum level of twist
- Measurement of linear density (in combination with COMCOUNT¹)
- Preparation of samples with known mass, e.g. for spin finish measurements¹

System components

- Yarn tensioner or optional positive yarn feeder
- Adjustable yarn guides for optimum yarn positioning in capacitive sensor
- Capacitive sensor with integrated electronics
- Self-threading high-speed yarn twister
- Yarn feed system by godet
- Integrated temperature- and humidity sensors to monitor the laboratory climate

Optional components and devices

- Positive yarn feeder for controlled yarn tension, tension range 1...100 cN
- COMCOUNT automatic linear-density tester, yarn transport by laboratory air
- Automatic sample collector with exchangeable magazines (20 positions)
- DYNAFIL ME+ universal filament yarn tester for combined draw-force, shrinkage, or crimp testing (see separate leaflet)

TESTCONTROL System

- State-of-the-art WINDOWS[®]-PC
- Open and documented data structure for easy data access, transfer and backup

Automatic package changers

- Automatic package changer model SM with two positions
- Automatic package changer model ASW+ with 20 positions
- Both models can splice on the running yarn for optimum reliability and throughput

Cabinet

- Textechno Aluminium cabinet on castors
- Dimensions HWD: 1680/ 680/ 650 mm
- Weight: approx. 120 kg (without COMCOUNT)
approx. 180 kg (with COMCOUNT and automatic sample collector)
- Lacquer finish: RAL 9006/5002

¹Optional equipment



Sensor with Twister

Further technical data

- Linear-density range: 10 to 4000 dtex,
other ranges on request
- Yarn speed: 1 to 800 m/min
- Twister speed: Up to 35000 rpm
- Power consumption: 230 V, 50 (60) Hz
- Compressed-air supply: 5 bar, 150 l/min
(depending on settings)

Test Report

Statistics

Values displayed or printed

- Mean value (average)
- Standard deviation S
- Coefficient of variation Cv and Cv (L)
- Confidence range (95%)
- U% (unevenness)
- Minimum value
- Maximum value
- Relative count

Graphics

Mass/length-diagram

- Freely programmable cut lengths from 0.01 to 1000 m
- Half-inert and inert

Spectrogram

- Max. wavelength: 1/4 of tested yarn length
- 160 channels, more channels on request

Length-variation curve

- Cut lengths from 2 cm to 1000 m

Data storage

Test results

- All measured data are stored on the hard disk of TESTCONTROL System.

Parameter storage

- All settings, group- and test parameters are stored on hard disk

Backup

- Data and parameters can easily be copied to backup media, network devices etc. using WINDOWS® functionality
- Backup can be automated

Data transfer

- Data structure is open and documented. Data can be transferred to LIMS-, Quality-, and other data base systems

General

Languages

- German, English, Chinese, other languages on request

Units

- Linear density: dtex, den, tex, other units on request
- Speed: m/min, other units on request

Testing time

- 5 seconds to 12 minutes, longer times on request

The above technical contents can be subject to changes by Textechno.



Textechno Herbert Stein GmbH & Co. KG
D-41066 Mönchengladbach, Germany
www.textechno.com



THE TEXTECHNO GROUP

Your reliable partners for
quality improvement

Lenzing Instruments GmbH & Co. KG
A-4851 Gampern, Austria
www.lenzing-instruments.com

