

Monosuisse AG
Test methods Physics laboratory
Standardized tests

Regulatin No.	
01PA01_G_Linear density	Determination of linear density
02PA01_G_Tension Test-UTR3-4	Force- elongation measurement
03PA01_G_HWS-Texturmat	Boiling shrinkage
03PA03_G_TSG HLS-Schrumpf	Hot air shrinkage
11PA01_G_Datacolor	Determine degree of whiteness, colorimetry (Lab, LCH)
13PA01_G_Fluff Tester	Determine fluffs and loops on multifilament yarns
17PA02_G_Ustertester UT4-5	Yarn uniformity
17PA03_G_Roundness	Measure roundness
17PA04_G_Sensoptic	Measure thick and thin parts
22PA01_G_Thermal Resistance	Thermal influence on force-elongation behaviour

02VS03_X.1_Zugversuch-Universal	Force-elongation, hysteresis, relaxation/retardation, creep
03VS04_X.1_Dynafil	Continuous measurementn of shrinkage force or elongation force
04VS01_X.1_KMG5 (Coherence lengths)	Checking the entanglement points and stability
05VS01_X.1_Twist control	Determine twist (S/Z)
05VS02_X.1_Torsion behaviour	Investigation of torsion tendency
06VS01_X.1_Crimping Texturmat	Determine the crimping properties
07VS01_X.1_Flexural stiffness-Frank	Determine bending stiffness according to Frank-Tester

31MI01_X.1_Microscopic analyses	surfaces, fine grinding, measuring dimensions
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Problem-oriented tests

Friction, Slip-Stick (Rothschild)	Determination of friction properties
Electrostatic yarn charging	Determination of electrostatic behaviour
Dyeability test (incl. Datacolor measurement)	Knitting, dyeing, colour measurement
Atlas Imprint	Physical analysis of stripes on surface structures
Laser-Mike thickness measurement	Optical filament measurement
Sensoptic	Optical filament measurement
Knot and loop strength	Force- elongation measurement
Unwinding tension	Measuring and monitoring unwinding tension
Winding analysis	Investigation of pattern breaking and variable traverse
Abrasion test	ASTM method or other

Further special tests on request.

The tests are charged according to time and effort, if required, an estimate can be requested
The cost per hour (60 min.) for 2023 is CHF 135 excl. VAT and includes all laboratory costs
(working time, equipment, auxiliary materials, infrastructure, measurement protocol/reports).

Monosuisse AG is an audited and certified company in accordance with ISO 9001 and ISO 14001.
The physics laboratory works according to EN/ISO standards or based on them; however
it is not a specially certified test laboratory.

Monosuisse AG
Spinnereistrasse 10
6020 Emmenbrücke

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Dr. Claudia Fritz-Kündig
Chief chemical and environment

E-Mail: claudia.fritz-kuendig@monosuisse.com
Phone: +41 41 414 71 55