

Developments in Fabric Testing, Test Methods and Equipment

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Abstracts

Testing plays an important role in maintaining the competitiveness of a company, especially in a highly competitive sector such as the textile industry. Fabric testing can be carried out to measure aspects of the objective quality of a product and to ensure that the product is fit for the purpose intended. It also ensures that a product complies with defined standards. This report provides a wealth of information on fabric testing and test methods, and some of the latest developments in equipment for: air permeability testing; colour fastness grading; colour measurement; fabric shrinkage and relaxation; moisture management testing; pressure measuring for compression and support textiles; protective wear testing; strength testing; thermal manikins; and weathering testing. The report highlights the latest products from a range of companies including B-Tex Engineering, Datacolor, James Heal, MAG Solvics, Measurement Technology Northwest, Mesdan Lab, Q-Lab, Salzmann, SATRA, SDL Atlas, VeriVide and WIRA.

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SUMMARY

IMPORTANCE OF FABRIC TESTING

Role in maintaining competitiveness

Compliance with defined standards

Selected suppliers of fabric testing equipment and specialist services

COLOUR MEASUREMENT: MANAGING ACCURACY AND CONSISTENCY

Evaluating colour by eye at a desk or point of manufacture

Evaluating colour by eye using standardised lighting cabinets

Instrumental colour measurement

Datacolor Viewport

Verivide: DigiEye system

COLOUR FASTNESS TESTING AND GRADING

James Heal: TruFade Light Fastness Tester

MAG Solvics: PerspiRator DX colour fastness to water and perspiration tester

MAG Solvics: PresoHot XT sublimation tester

Q-Lab: Q-Sun B02 xenon light fastness tester

Verivide: DigiGrade colour fastness system

WEATHERING TESTING

Q-Lab: QUV Accelerated Weathering Tester

STRENGTH TESTING

B-Tex Engineering: Elmendorf Type Tearing Strength Tester

James Heal: Titan4 Universal Strength Tester

James Heal: upgrades to two other strength testing machines

MAG Solvics: MecTear

MOISTURE MANAGEMENT TESTING

SDL Atlas: Hydrostatic Head Tester
SDL Atlas: Moisture Management Tester (MMT)
SDL Atlas: Sweating Guarded Hotplate

AIR PERMEABILITY TESTING

SDL Atlas: Digital Air Permeability Tester M021A

THERMAL MANIKINS

Measurement Technology Northwest: Newton thermal manikin system
Measurement Technology Northwest: Nemo submersible thermal manikin

PRESSURE MEASURING FOR COMPRESSION AND SUPPORT

TEXTILES

Salzmann: MST Professional pressure measuring device

FABRIC SHRINKAGE AND RELAXATION

WIRA: Steaming Cylinder

PROTECTIVE WEAR TESTING APPARATUS

Mesdan Lab: ISO Flammability Lab
Mesdan Lab: Mesdan Impact Abrasion Lab

SATRA

SATRA: STM 604 Martindale Abrasion Tester
SATRA STM 611 Circular Blade Cut Resistance Tester
SATRA: STM 610 Cut Resistance Evaluator
SATRA: STM 566 Tensile Tester
WIRA Molten Test Apparatus (PCT:003)
WIRA Small Drops Molten Metal Test Apparatus (PCT:004)
WIRA Contact Heat Testing Apparatus (PCT:005)

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