

Textile Physical Testing



HEXAGON

Your Textile Sourcing Partner

Fabric GSM/Length-width Testing

ISO 22198: Determination of width and length of textile fabric

ASTM D3774: Standard test method for width of textile fabric

ISO 3801: Determination of mass per unit length and mass per unit area of woven fabrics

ASTM D 3775: Standard Test Method for End / Pick Count of Woven Fabrics

ISO 13015: Determination of skew and bow of woven fabrics

Fabric Pilling/Abrasion Testing

ISO 12945-1: Determination of propensity to surface fuzzing and to pilling - Pilling box method.

ISO 12945-2: Determination of propensity to surface fuzzing and to pilling - Martindale method

ISO 12945-3: Determination of propensity to surface pilling, fuzzing or matting - Tumble pilling method

ASTM D 3512: ASTM D 3512 Standard Test Method for Pilling Resistance by Random Tumble Pilling Tester

ASTM D 4970-12: Standard Test Method for Pilling Resistance by Martindale Tester

ISO 12947-2: Determination of the abrasion resistance of by the Martindale method

Fabric Strength Testing

ISO 13934-1: Determination of Tensile properties of fabrics using the strip method.

ISO 13934-2: Determination of Tensile properties of fabrics using the grab method

ISO 13935-1: Determination of maximum force to seam rupture using the strip method

ISO 13936-1: Determination of the slippage resistance of yarns at a seam - Fixed seam opening method

ISO 13937-1: Determination of tear force of fabric using ballistic pendulum method (Elmendorf)

ISO 13938-2: Determination of bursting strength and bursting distension by Pneumatic method

ASTM D 5035: Standard Test Method for Breaking Force and Elongation (Strip Method)

ASTM D 5034: Standard Test Method for Breaking Strength and Elongation (Grab Test)

ASTM D 1683: Standard Test Method for Failure in Sewn Seams of Woven Fabrics

ASTM D 1424: Standard Test Method for Tearing Strength of Fabrics by Falling-Pendulum Apparatus

ASTM D 3786: Standard Test Method for Bursting Strength of Fabrics - Diaphragm Bursting Tester

Fabric Dimensional Stability

ISO 6330: Domestic washing and drying procedures for textile testing

AATCC 135: Test Method for Dimensional Changes of Fabrics after Home Laundering

Fabric Crease/Wrinkle Recovery

ISO 2313: Determination of the recovery from creasing of a horizontally folded of textile fabric

AATCC 66: Wrinkle Recovery of woven fabrics by Recovery Angle Method

AATCC 128: Wrinkle Recovery of woven fabrics by Appearances Method

Tensile Strength of Yarn/Lea

ISO 2062: Determination of breaking force and elongation at break using CRE tester

ISO 6939: Method of test for breaking strength of yarn by the skein method

ASTM D 2256: Standard Test Method for Tensile Properties of Yarns by the Single-Strand Method

ASTM D 1578: Standard Test Method for Breaking Strength of Yarn in Skein Form

Yarn Liner Density

ISO 2060: Determination of linear density (mass per unit length) by the skein method

ASTM D 1907: Standard Test Method for Linear Density of Yarn (Yarn Number) by the Skein Method

ASTM D 1059: Standard Test Method for Yarn Number Based on Short-Length Specimens

Yarn Twist Testing

ISO 17202: Determination of twist in single spun yarns, Untwist/retwist method

ISO 2061 Determination of twist in yarns, Direct counting method

ASTM D 1422: Standard Test Method for Twist in Single Spun Yarns by the Untwist-Retwist Method

Yarn Unevenness (Uster – 5)

ASTM 1425: Standard Test Method for Evenness of Textile Strands Using Capacitance Testing Equipment

Yarn Crimp/Take up

ASTM D 3883-99: Standard Test Method for Yarn Crimp and Yarn Take-up in Woven Fabrics

Fiber Strength Testing

ISO 3060: Determination of breaking tenacity of flat bundles Cotton fibers (Pressly method).

ASTM D 3822: Standard Test Method for Tensile Properties of Single Textile Fibers

Cotton Fiber Testing

ISO 2403: Determination of micronaire value of Cotton fibres

ISO 6989: Determination of length and length distribution of textile staple fibres

ASTM D 2495-7: Standard Test Method for Moisture in Cotton by Oven-Drying