

Tensile Strength Tester (Uec-1005-E)

A fast, accurate and user friendly instrument for providing rapid and efficient determination of tensile strength, stretch, tensile energy absorption and tensile stiffness of paper and paperboard. The instrument is equipped with high friction clamps which prevents test pieces from slipping during measurements. The clamps provided in the equipment grip the test piece without damage, for accurate elongation measurements. The right clamp starts moving at a specified velocity and the built-in microcomputer registers and stores the values. After the test series is completed, a summary sheet giving the date and time, sample grammage, testing conditions and calculated data is brought out as a record.

Rapid and accurate test results are obtained as the user does not need to touch the test piece in the measuring area. The testing procedure being very simple and also eliminates operator errors.

By Tensile Strength we can understand that how well the paper will resist breaking during process such as conversion, printing and packaging. Tensile Strength failure will occur as a result of either inadequate bonding between the fibres, or fibre failures.

High stretch value is desired properly in the surface plies of a multiply bolt other wise cracks will occur during creasing process.

Tensile Energy absorption indicates how much tensile energy a test piece can absorb before it gets damaged.

High Tensile Stiffness means high bending stiffness and has propotional relations with the stacking strength of the finished corrugated box.

