

Static Extension Tester

KFG – 2075/6

The Static Extension Tester is available in 2 forms – the standard **KFG-2075** (single position), and the **KFG-2076**. These fixtures are designed and manufactured to meet the testing requirements of ASTM D3107.

The Static Extension Tester was developed to determine the stretch and recovery properties of woven stretch fabrics. Although particularly designed for woven fabrics, this test may also be applicable for knit fabrics, provided that the elongation at 2 pounds/inch is less than 85%. In the determination of fabric stretch, good correlation between percent fabric stretch at 2 pounds/inch and “hand stretch” was observed for a broad range of stretch fabrics.

The single station tester consists of a vertical frame with a fixed clamp at the top, a 50 cm vertical scale and a sliding clamp that operates within the scale range. The 5-station tester consists of one single station tester and five fixed clamps mounted on a board. It allows three tests each for two specimens at one time. The single tester is used to determine the fabric stretch. The 5 station tester together with the single station tester is used to determine the growth after elongation to a predetermined extension.

Fabric Stretch – The extension of a sample at a load of 2 pounds/inch width, expressed as percent of the original length.

Power – The force required to extend an exercised sample to an extended length equal to 85% of the “fabric stretch”, expressed in pounds/inch width.

Unrecovered Tensile Strain Percent – The unrecovered length of a sample which has been held in the extended state for a specified time (2 hours), expressed as a percent of the original length.

KFG-2076A Extra Weight Kit

