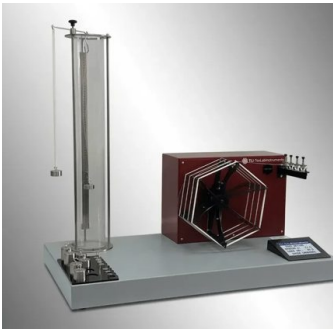


TXL-IPL-006 / 27 October 2026 · One-year manufacturer warranty

Crimp Contraction Tester

Determines the crimp percentage of textured synthetic yarns using a water-filled Plexiglas cylinder, skein holder and pretension weights. Particularly suited to textured nylon yarns for hosiery.



Model technical data

1	Plexiglas cylinder filled with water.
2	Skein holder and millimetre scale with 1 mm accuracy.
3	Pretension weights and an automatic single-yarn wrap reel are supplied with the instrument.

Physical specifications and utilities

Electrical supply	Approx. 220–240 V AC, 50/60 Hz, single phase; build-dependent.
Power / connected load	Approx. 50–200 W automatic wrap reel; manual wet fixture 0 W. Separate prebulking bath excluded.
Overall instrument dimensions	Approx. 700 × 400 × 850 mm (W × D × H); base fixture and reel installation envelope.
Instrument weight	Approx. 15–35 kg net; base fixture and reel.
Gross / shipping weight	Approx. 27–54 kg gross; estimated packing allowance.
Lab requirements	Test water at 20 ± 2 °C and stable bench; separate controlled hot-water bath if BS 6663 method B is selected.

Dimension order and approximate values are stated in each row. Packaging data are separate from instrument dimensions and net mass. Approx. rows are preliminary engineering estimates based on comparable equipment and function/capacity; they are not verified manufacturing measurements or standard requirements. Installation and shipment are finalised against the approved drawing and nameplate. Estimate scope: base product / one unit; external computer, bench and auxiliary plant excluded.

Specifications, dimensions, and power requirements are approximate and subject to change without prior notice for continuous design improvements.

Product technical specifications and images may vary according to manufacturing conditions and applicable standards.

Test and configuration

Measured output / function	Crimp, shrinkage or length change (%)
Parameters selected for the method	Pretension, heat treatment and reference length
Verification points	Length, pretension and temperature where applicable

Control and recording specification

Method-specific software and recording requirements follow. Delivered software modules are defined by the order scope.

- Method code and edition, specimen ID, operator and selected test parameters are linked to the record.
- The calculation and endpoint are defined by the selected method edition; instrument signals and operator assessments are kept distinct.
- Raw measurements, units, valid/invalid test flags and the reported result remain traceable.
- Calculations are checked against known inputs and an independent calculation; sensor channels are checked against calibration values.

Related test methods

BS 6663

Listed methods are application references. Suitability is established by assessing hardware, method edition and calibration together.

Test parameters for the reviewed method

The values below were reviewed in selected clauses of the stated source edition. They are not a declaration of equivalence to a later edition or independent instrument verification.

BS 6663:1986 / 1–9, Figure 1, Tables 1–2; apparatus 4; procedure 6

1	Water-hank contraction method for textured nylon yarn. Water 20 ± 2 °C; initial load 0.900 mN/dtex, reduced load 0.0176 mN/dtex. Weight tolerance $\pm 1\%$; calibration refers to load in air. Requires 2 L cylinder, adjustable 100-division scale and timing accuracy 0.1 s.
2	Hold 2 min under full load, then 2 min after removing the heavy load. Two determinations per package; a third if difference $> 1\%$. Method B prebulking heats water to 75 ± 4 °C in about 10 min and holds 10 min; separate bath provision depends on order scope.