

TXL-DER-003 / 27 October 2026 · One-year manufacturer warranty

Flexometer — Cold Environment Tester

Detects the resistance of coating layers on the leather surface during continuous folding and flexing. Twelve leather specimens can be tested simultaneously. Test parameters can be changed as required from the control unit; tests can be run down to -25 °C.



Model technical data

1	Detects the resistance of coating layers on the leather surface to continuous folding and flexing.
2	Twelve leather specimens can be tested simultaneously.
3	Tests can be carried out down to -25 °C.

Physical specifications and utilities

Electrical supply	Approx. 220–240 V AC, 50/60 Hz, single phase; build-dependent.
Power / connected load	Approx. 1500–3000 W connected load for preliminary planning.
Overall instrument dimensions	Approx. 850 × 750 × 1300 mm (W × D × H).
Instrument weight	Approx. 100–180 kg net.
Gross / shipping weight	Approx. 135–250 kg gross; estimated packing allowance.
Lab requirements	Ventilated installation; purified water and drain for humidification options. Separate conditioning plant depends on order scope.

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	Leather surface damage after repeated flexing
Parameters selected for the method	Specimen direction, temperature, flexing and cycles
Verification points	Temperature, counter and holder motion

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.
- Select DIN 53351 edition and material scope explicitly: the accessed 1983 cover/page 1 covers leather, artificial leather and similar sheets; the 2003 title covers artificial leather and similar sheets. The 1983 first page omits apparatus figures on pages 2–4. The model's -25 °C capability is not a standard test temperature; holder, folding movement and recipe suitability require separate verification.

Related test methods

DIN 53351

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

Historical method references: DIN 53351