

TXL-SRF-001 / 27 October 2026 · One-year manufacturer warranty

Grey Scale for Assessing Change in Colour (A02)

Reference scale used to grade objectively the change in colour of a specimen after fastness testing. Compliant with ISO 105-A02, nine pairs of matt grey reference fields.



TLI TexLab Instruments

Model technical data

1	Nine pairs of matt grey reference fields.
2	Grading steps: 5, 4-5, 4, 3-4, 3, 2-3, 2, 1-2 and 1.
3	Grading system in accordance with ISO 105-A02.
4	Objective grading of the change in colour resulting from fastness tests.
5	Also used for grading tests carried out to light fastness standards.

Physical specifications and utilities

Electrical supply	Manual / passive base apparatus; no mains supply assumed.
Power / connected load	Approx. 0 W connected load for preliminary planning.
Overall instrument dimensions	Approx. 160 × 110 × 15 mm (W × D × H).
Instrument weight	Approx. 0.05–0.15 kg net.
Gross / shipping weight	Approx. 0.5–0.6 kg gross; estimated packing allowance.
Lab requirements	Level, stable working surface; specimen conditioning follows the selected method.

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: one scale or small consumable pack; varies with pack quantity.

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	Visual grading of colour change
Parameters selected for the method	Correct scale type, illumination and viewing conditions
Verification points	Scale condition, service period and reference traceability

Control and recording specification

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

- The need for integrated software depends on the method and selected hardware; manual instruments use an external test record.
- 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

ISO 105-A02

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 1006:1990, A02 / ISO 105-A02 / 2.1, 2.5–2.6

1	In the colour-change scale, the first member of each pair is neutral grey, distinct from the white staining reference. Use five principal or nine half-step grades; compare original and tested specimens in the same plane/orientation against a neutral-grey surround.
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