



TORONTECH

PIPE OPACITY TESTER - TORONPOT™ -SERIES



ISO 7686

Pipe Opacity Tester – ToronPOT™-Series is designed to precisely measure the opacity of pipes and fittings. It is a dependable solution for pipe manufacturers, research facilities, and quality inspection centers.

ToronPOT™-Series features a high-performance light source, luminous flux collection system, automated specimen loading and unloading, motorized positioning, stable sample support, intuitive touchscreen interface, and a built-in micro-printer for easy data output.

APPLICATIONS

- **Plastic Pipe Manufacturers & Extrusion Plants** - Utilized for opacity testing of PE, PVC, and PP pipes during production and batch quality control to ensure compliance with ISO 7686.
- **Research & Testing Laboratories** - Applied in material studies to evaluate the influence of pigments, additives, and stabilizers on pipe opacity and long-term performance.
- **Water Supply & Irrigation Industry** - Ensures pipes meet opacity standards to protect against UV degradation, maintaining durability in potable water and irrigation systems.
- **Gas Distribution & Energy Industry** - Supports quality verification of plastic gas pipes by confirming opacity levels that safeguard against light penetration and material weakening.

- **Construction & Infrastructure Projects** - Used in acceptance testing of piping systems for drainage, sewage, and municipal applications where opacity is a regulatory requirement.
- **Certification & Standards Agencies** - Provides independent, standardized testing in accordance with ISO 7686 for product certification and compliance audits.
- **Pipeline Maintenance & Failure Analysis** - Assists in forensic evaluation of in-service pipes by measuring opacity variations linked to weathering or manufacturing defects.
- **Universities & Technical Institutes** - Serves as a training instrument for teaching international standards, opacity measurement techniques, and material characterization.

FEATURES

Pipe Opacity Tester – ToronPOT™ -Series Features

1. Tests up to four specimens simultaneously.
2. Features an industrial-grade touchscreen with strong anti-interference capability, offering a simple and user-friendly interface.
3. Equipped with a high-precision light collector and a minimum 24-bit analog-to-digital conversion system for accurate light flux acquisition.
4. Supports automatic identification, positioning, tracking, and movement of four samples across 12 measurement points, enabling fully automated testing.
5. Includes built-in functions for automatic analysis, data recording, storage, and real-time display.

6. Engineered with a well-structured design that ensures stable performance, high efficiency, energy conservation, easy operation, and straightforward maintenance.

TECHNICAL SPECIFICATIONS

Model	Specifications
ToronPOT-40 Pipe Opacity Tester	1. Diameter range: $\Phi 16\text{-}\Phi 40\text{mm}$; 2. Touch screen controller; 3. Wave length: $545\text{nm}\pm 5\text{nm}$; 4. Number of test stations: 3 test specimens
ToronPOT-200 Pipe Opacity Tester	1. Diameter range: $\Phi 16\text{-}\Phi 200\text{mm}$; 2. Touch screen controller; 3. Wave length: $545\text{nm}\pm 5\text{nm}$; 4. Number of test stations: 1 test specimen



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