



CARBON BLACK CONTENT TESTER & ANALYZER - TORONCBCT™

Carbon Black Content Tester & Analyzer – ToronCBCT™ is designed to measure carbon black levels in polyethylene, polypropylene, polybutene plastics, cable insulation, optical cable sheathing, and rubber materials.

Standards Compliance:

- ISO 6964
- IEC 60811-4-1

APPLICATIONS

- **Polymer Quality Control & Lifetime Assurance:** Ensures material longevity and stability by accurately measuring carbon black and ash content in plastics, polyethylene, polypropylene, and rubber, verifying critical UV and weather protection.
- **Regulatory Compliance:** Serves as the primary testing solution for product certification, providing accurate results in full adherence to international standards, including ISO 6964 and IEC 60811-4-1.
- **Telecommunications & Cable Sheathing:** Essential for material verification in the cable industry, ensuring the mechanical and physical performance of copper core polyolefin insulated cables per standards like YD/T 837.3-1996.
- **High Throughput Processing:** Designed for laboratory efficiency with an extended heating chamber that accommodates up to four samples simultaneously, maximizing sample processing volume per batch.
- **Precision and Stability:** Guarantees repeatable and accurate results across demanding test profiles using high-accuracy PID temperature control and programmable multi-stage heating capabilities.
- **Streamlined User Experience:** Features a 7-inch LCD touchscreen and integrated software that provides one-click calculation of carbon black and ash content, simplifying operation and minimizing user training requirements.

FEATURES

- Open-lid furnace design for easy sample loading and better heat dissipation.
- Extended heating chamber accommodates up to four samples at once, improving throughput.
- Built-in software provides one-click calculation of carbon black and ash content.
- PID temperature control ensures high accuracy, wide temperature range, and stable furnace conditions.
- 7-inch LCD touchscreen delivers user-friendly operation with one-click start, isothermal time setting, and precise control.
- Programmable multi-stage heating supports customized temperature ramps.

TECHNICAL SPECIFICATIONS

Model	ToronCBCT™
Temperature Range	RT - 1000°C
Display	7-inch Wide Touchscreen
Quartz Tube Dimensions	45mm × 600mm
Furnace Chamber Dimensions	45mm × 350mm
Heating Element	High-Temperature Alloy Resistance Wire
Heating Zone Length	260mm
Temperature Control	Programmable Multi-Stage Heating with Auto-Memory
Sensor Sensitivity	0.1°C
Gas Path Control	Dual Channels with Automatic Switching
Number of Test Samples	4 Samples per Batch for One Time
Cooling Method	Open-Lid Design for Rapid Cooling

Model	ToronCBCT™
Data Calculation	Automatic Software Calculation (Carbon Black Content, Ash Content)
Voltage	AC220V/50Hz or Customized
Power Consumption	600w
Dimensions	416 × 325 × 289mm



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