



TORONTECH

FIRE AND FLAMMABILITY TESTING FOR GENERAL LAB/ENVIRONMENT



Professional Fire & Flammability Testing Solutions

ToronFT™ Fire and Flammability Testing for General Lab/Environment series is Torontech's broadest collection of instruments, designed to support the full spectrum of fire and flammability testing workflows in modern laboratories. From environmental conditioning chambers and aging systems to highly specific flammability testers for plastics, cables, foams, and architectural products, this series equips laboratories with the complete toolset needed for comprehensive material evaluation.

Whether performing routine quality control, accelerated aging studies, or full compliance testing, these instruments offer precise control, digital data integration, and conformance to the widest range of international standards including ISO, IEC, ASTM, UL, EN, and GB. Torontech's general lab series is the backbone of any fire testing facility.

Applications & Industries

- **Plastics & Polymer Industry** — Characterizing flammability, smoke density, and ignition temperatures of engineering and commodity plastics
- **Cable & Wire Manufacturing** — Testing cable trays, insulation, and sheathing materials for fire resistance and flame propagation compliance
- **Construction & Architecture** — Evaluating fire doors, windows, interior panels, and structural elements for building code certification
- **Electronics & Appliance Manufacturing** — Assessing enclosures, PCBs, and internal components for UL 94 and IEC 60695 flammability classification
- **Foam & Flexible Materials** — Testing cellular and rigid foams for horizontal and vertical burning, smoke, and toxicity compliance
- **Safety & Emergency Systems** — Validating emergency lighting, evacuation signs, and fire-response fixtures for regulatory approval
- **Environmental & Aging Laboratories** — Performing UV, humidity, salt spray, and thermal aging studies to predict long-term fire resistance

Product Table

Product Name	Description	Standards
Programmable Temp & Humidity Test Chamber	Provides controlled temperature and humidity environments for conditioning specimens prior to flammability testing	IEC 60068, ASTM E171
Electric Constant Temperature Drying Oven	Maintains precise drying temperatures for specimen preparation and post-test moisture analysis	ISO 2578, ASTM D5229
Multiple Groups of Closed Electric Furnaces	Simultaneous multi-group ashing or heat treatment of specimens in sealed environments for consistent results	ISO 1172, ASTM E831
Constant Temperature Water Bath	Provides isothermal water bath conditions for standardized specimen conditioning and thermal property testing	ISO 2631, ASTM D1149
Constant Temperature Oil Tank	Delivers stable oil-bath heating for high-temperature conditioning of rubber, gasket, and polymer specimens	ISO 1817, ASTM D471
Tower UV Aging Test Apparatus	Simulates long-term UV weathering effects on materials to assess photodegradation and fire-retardant stability	ISO 4892, ASTM G154
Corrosion Resistance Test Chamber	Exposes specimens to salt spray and humidity to evaluate corrosion resistance of coated and metallic materials	ISO 9227, ASTM B117
Emergency Lighting & Evacuation System Tester	Validates the functional reliability and fire response of emergency lighting, signs, and evacuation systems	EN 1838, IEC 60598
Cellular Horizontal Burning Tester	Determines horizontal burning rate and flammability classification of cellular (foam) plastics and composites	UL 94 HB, ISO 9772
Rigid Cellular Vertical Burning Tester	Assesses vertical flame propagation behavior and self-extinguishing properties of rigid foam materials	UL 94 V, ISO 3582
Carbon Black Content Tester	Measures carbon black dispersion and concentration in polyolefin pipes and fittings for quality control	ISO 6964, ASTM D1603

Product Name	Description	Standards
Lighting Temperature Tester	Determines the auto-ignition and minimum ignition temperature of solid and granular materials	ISO 871, ASTM E659
Plastic Flash & Spontaneous Ignition Temp Tester	Determines flash point and spontaneous ignition temperatures of plastics and polymer materials	ISO 11357, ASTM D1929
Plastic Smoke Density Tester	Quantifies smoke obscuration and optical density produced by burning or smoldering plastic specimens	ASTM E662, ISO 5659-2
Halogen Acid Gas Release Tester	Measures corrosive halogen acid gas emission from burning cables and polymer materials	IEC 60754, EN 50267
Vinyl Plastic Flame Retardant Tester	Evaluates flame retardant effectiveness and burning characteristics specific to PVC and vinyl compounds	UL 94, IEC 60332
Cable Tray Fire Resistance Tester	Tests fire resistance and flame propagation of cables installed in trays under standard fire exposure conditions	IEC 60332-3, IEEE 383
Horizontal Furnace Doorsets/Windows Repeated Switching Tester	Simulates operational cycling of fire-rated doors and windows to assess endurance under repeated opening and closing cycles	EN 1634, ASTM E2074

Why Choose Torontech ToronFT™ Series?

Torontech is a trusted global manufacturer of precision fire and flammability testing instruments. The ToronFT™ series is engineered to meet the most demanding standards in safety, accuracy, and compliance.

- Internationally certified instruments complying with ISO, ASTM, EN, and GB standards
- High-precision sensors and control systems for repeatable, reliable results
- Comprehensive product range covering all major fire and flammability testing needs
- Expert technical support and after-sales service worldwide
- Customizable testing configurations to match specific research or production requirements
- User-friendly interface with advanced data acquisition and reporting software

Contact us today to learn more about our ToronFT™ testing solutions and request a custom quote tailored to your laboratory needs.



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