



PLASTICS AND POLYMER TESTING EQUIPMENT

At Torontech, we take pride in being a global leader and trusted manufacturer of cutting-edge plastic and polymer testing instruments. Our comprehensive range of testing equipment is designed to meet the diverse needs of industries that rely on the quality, durability, and performance of plastic and polymer materials.

Our advanced testing solutions cater to a wide array of industries within the plastics and polymer sector, including:

1. **Plastics and PVC Pipe Manufacturers:** Ensuring compliance with industry standards for durability, pressure resistance, and environmental stress cracking.
2. **Flexible Packaging and Film Industry:** Testing materials for tensile strength, elongation, puncture resistance, and barrier properties to guarantee product safety and performance.
3. **Rubber and Elastomer Industry:** Evaluating properties such as tensile strength, hardness, elasticity, and resistance to environmental factors to maintain high-quality performance standards.
4. **Polymer Producers and Raw Material Suppliers:** Supporting manufacturers of base polymers like polyethylene, polypropylene, and PVC, as well as suppliers of plasticizers, stabilizers, and additives with essential testing for material properties.
5. **Compounders and Masterbatch Producers:** Assisting in the development of customized polymer blends and additive concentrates with precision instruments for rheological, mechanical, and color property analysis.
6. **Universities and Research Centers:** Supporting academic and industrial research with precise, reliable testing equipment for innovative materials and development projects.

Comprehensive Range of Testing Instruments

Torontech offers a full spectrum of plastic and polymer testing equipment to evaluate physical, mechanical, thermal, and chemical properties, including:

1. Tensile Testing Machines
2. Impact Testers (e.g., Charpy / Izod / Falling Weight Impact Testers)
3. Melt Flow Index (MFI) Testers
4. Differential Scanning Calorimetry (DSC) Analyzers
5. HDT/Vicat Softening Point Testers

6. Pipe Testing Equipment (e.g., Hydrostatic Pressure Testers, Ring Stiffness Testers)
7. Environmental Stress Cracking Resistance (ESCR) Testers
8. Thermal Cycling Testers
9. Abrasion and Wear Testers
10. Transmission Rate Analyzers (for gas and moisture permeability testing)
11. Density Testers
12. Color Measurement Instruments

Adherence to Global Testing Standards

Our instruments are designed to comply with internationally recognized standards, ensuring accurate, reliable, and repeatable results. Some of the popular plastics and polymer testing standards we support include:

1. **ASTM Standards:** ASTM D638 (Tensile Properties), ASTM D1238 (MFI), ASTM D790 (Flexural Properties), ASTM D256 (Impact Testing), ASTM D1525 (HDT), ASTM D1598/D1599 (Hydrostatic Pressure Testing).
2. **ISO Standards:** ISO 527 (Tensile Testing), ISO 1133 (MFI), ISO 75 (HDT), ISO 306 (Vicat), ISO 2507 (Pipe Testing).
3. **EN and UL Standards:** EN 744, UL 651A, and other relevant certifications for global market compliance.

With years of experience and a commitment to innovation, Torontech is dedicated to delivering superior testing solutions that help businesses maintain product quality, ensure regulatory compliance, and drive continuous improvement. Our equipment is known for its precision, durability, and user-friendly design, making it the preferred choice for laboratories and production facilities worldwide.

Contact us today to learn more about our plastic and polymer testing instruments and how we can support your specific testing needs.



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