



RUBBER, PLASTICS AND ELASTIC MATERIALS DENSITY TESTER TTD- 300PY/600PY

Rubber, Plastics and Elastic Materials Density Tester TTD-300PY/600PY is a high-precision instrument designed for accurate measurement of density, porosity, and absorption in rubber, plastics, and elastic materials.

Density Meter, Density Tester, Densimeter, Specific Gravity Tester

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Maximum Weight: 300g / 600g

Weighing Precision: 0.01g

Density Precision: 0.001g/cm³

Standards: ASTM C20, C128, C127, C134, C135, C437, C357, AASHTO T 84

The machine includes 4 functions and displays the following directly:

1. Displays Bulk Density
2. Displays Wet Density
3. Shows Porosity
4. Measures Absorption
5. Indicates Apparent Density
6. Measures Open Pores
7. Calculates Closed Porosity
8. Provides Total Porosity

APPLICATIONS

Suitable for

Shoe materials, Sponge, EVA materials, EPDM plastic industry, Graphite, Carbon electrode, Refractory, Corrosion-resistant materials, New materials research lab, Building industry, Civil Engineering industry and concrete mixture ratio research lab, Mineral mining industry, Geology research lab.

Principle

Rubber, Plastics and Elastic Materials Density Tester TTD-300PY/600PY complies with ASTM C20, C128, C127, C134, C135, C437, C357, and AASHTO T 84 standards. By utilizing the buoyancy method based on Archimedes' principle, as well as the vacuum saturation and boiling saturation methods, it can display measurement results directly.

Mode

- 1. BULK:** Uses the water saturation method for porous materials.
- 2. BK+:** Applies the water saturation method for porous absorbent materials, featuring five memory function groups.
- 3. Powder:** For powder products, a pycnometer (optional) is used to directly read the true density of the powder.
- 4. DS:** Suitable for nonabsorbent materials.

FEATURES

- The infrared temperature sensor automatically detects water temperature for water temperature compensation.

- Rubber, Plastics and Elastic Materials Density Tester TTD-300PY/600PY equipped with automatic temperature compensation, manual temperature compensation, and solution compensation functions.
- Provides direct readings of body bulk density, wet density, porosity, absorption, apparent density, open pores, close porosity, and total porosity.
- Rubber, Plastics and Elastic Materials Density Tester TTD-300PY/600PY features built-in five groups of memory functions enabling simultaneous measurement of five sample groups in absorbent product density measurement mode.
- Displays values for the development research of new materials, with HI and LO limit functions and a buzzer to determine the qualification of the test object's specific gravity in non-absorbent product density measurement mode. Includes a function for two groups mixing ratio.
- Option to purchase a pycnometer for direct measurement of powder true density.
- Rubber, Plastics and Elastic Materials Density Tester TTD-300PY/600PY equipped with RS-232 & USB Interface.
- Incorporates a large-size water tank design to minimize errors caused by buoyancy of the suspension rail.
- Water tank dimensions: 148 × 100 × 85mm.

TECHNICAL SPECIFICATIONS

Model	TTD-300PY	TTD-600PY
Max weight	300g	600g
Weighting precision	0.01g	
Density precision	0.001 g/cm ³	
Wet density	0.001 g/cm ³	
Porosity	0.01 %	
Absorption	0.01 %	

Apparent DS		0.001 g/cm ³
Open pores		0.001 g/cm ³
Close porosity		0.01 %
Total porosity		0.01 %
Mix ratio		0.01 %
Mode	Bulk density (Adopting water saturation method)	Porous material : Show Bulk density, Wet density, Porosity, Absorption, Apparent DS, Open pores, Close porosity, Total porosity
	Bulk density (Adopting water saturation method) (Five groups of memory functions)	Porous absorbent material : Show Bulk density, Wet density, Porosity, Absorption, Apparent DS, Open pores, Close porosity, Total porosity
	Powder true density	Powder products : Show Powder true density
	Nonabsorbent material	Show Density, Volume, Mix ratio directly



TORONTECH

Torontech Inc.

251 Consumers Road, Suite 1200
Toronto, Ontario, M2J 4R3, Canada 🇨🇦

Phone: +1 416 368 2721 | Fax: +1 416 981 7652
Email: info@torontech.com

Torontech, LLC

601 Brickell Key Drive, Suite 700
Miami, FL 33131, USA 🇺🇸

Toll-Free: 1-866-383-7919
Email: sales@torontech.com

Torontech ME FZE

Meydan Grandstand, 6th Floor,
Meydan Road, Nad Al Sheba,
Dubai-261440, UAE 🇦🇪

Phone: +971 488 19252
Email: me@torontech.com



USA | Canada | EU | UAE | GCC | KSA | India | Africa | Latin America | Asia

