



RUBBER, PLASTICS AND ELASTIC MATERIALS DENSITY TESTER TTD-214PY

Rubber, Plastics and Elastic Materials Density Tester TTD-214PY is a highly precise instrument designed for measuring the density and porosity of rubber, plastics, and elastic materials. It has a maximum weight capacity of 210g, with a weighing precision of 0.0001g and a density precision of 0.0001g/cm³.

Density Meter, Density Tester, Densimeter, Specific Gravity Tester

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Maximum Weight Capacity: 210g

Weighing Precision: 0.0001g

Density Precision: 0.0001g/cm³

Compliant with Standards:

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

Machine Functions:

- Displays Bulk Density
- Displays Wet Density
- Shows Porosity
- Measures Absorption
- Indicates Apparent Density
- Measures Open Pores
- Calculates Closed Porosity

- 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

According to ASTM C20, C128, C127, C134, C135, C437, C357, AASHTOT 84 standard and by adopting the buoyancy method of Archimedean principle. and by applying the Vacuum saturation method, the Boiling saturation method can show the measuring result directly.

Mode

1. BULK: Utilizes the water saturation method for porous materials.
2. BK+: Utilizes the water saturation method for porous absorbent materials, equipped with five groups of memory functions.
3. Powder: For powder products, offers the option to use a pycnometer (optional) for direct measurement of the powder's true density.
4. DS: Designed for nonabsorbent materials.

FEATURES

- The infrared temperature sensor automatically detects water temperature and compensates accordingly.
- Rubber, Plastics and Elastic Materials Density Tester TTD-214PY equipped with automatic, manual, and solution temperature compensation functions.
- Provides direct readings of body bulk density, wet density, porosity, absorption, apparent density, open pores, close porosity, and total porosity.
- Includes five groups of memory functions capable of measuring five sample groups simultaneously 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. Also features a function for two groups mixing ratio.
- Optional pycnometer available for direct measurement of powder true density.
- Equipped with RS-232 & USB Interface.
- Large-size water tank design reduces errors caused by buoyancy of the suspension rail.
- Water tank dimensions: 148 × 100 × 85mm.

TECHNICAL SPECIFICATIONS

Model	TTD-214PY	
Max weight	210g	
Weighting precision	0.0001g	
Density precision	0.0001 g/cm3	
Wet density	0.0001 g/cm3	
Porosity	0.01 %	

Absorption		0.01 %
Apparent DS		0.0001 g/cm3
Open pores		0.0001 g/cm3
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



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