



RUBBER, PLASTICS AND ELASTIC MATERIALS DENSITY TESTER TTD-153PY

Rubber, Plastics and Elastic Materials Density Tester TTD-153PY is a precise instrument for measuring the density and porosity of rubber, plastics, and elastic materials. With a maximum weight capacity of 150g, it offers a weighing precision of 0.001g and a density precision of 0.0001g/cm³.

Density Meter, Density Tester, Densimeter, Specific Gravity Tester

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Maximum Weight Capacity: 150g

Weighing Precision: 0.001g

Density Precision: 0.0001g/cm³

Compliant with Standards:

ASTM C20, C128, C127, C134, C135, C437, C357 GB/T 2997, 2998, 2999, 6155, 23561, 24203, 24528 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

Rubber, Plastics and Elastic Materials Density Tester TTD-153PY meets ASTM C20, C128, C127, C134, C135, C437, C357, GB/T 2997, 2998, 2999, 6155, 23561, 24203, 24528, and AASHTO T 84 standards. It uses the buoyancy method based on Archimedes' principle, along with the vacuum saturation and boiling saturation methods, to display measurement results directly.

Mode

1. BULK: Utilizes the water saturation method for porous materials.
2. BK+: Utilizes the water saturation method for porous absorbent materials, featuring five memory function groups.
3. Powder: For powder products, offers the option to use a pycnometer to directly measure the true density of the powder.
- 4.DS: Designed for nonabsorbent materials

FEATURES

- The infrared temperature sensor automatically detects water temperature for water temperature compensation.
- Rubber, Plastics and Elastic Materials Density Tester TTD-153PY equipped with automatic temperature compensation, manual temperature compensation, and solution compensation functions.
- Rubber, Plastics and Elastic Materials Density Tester TTD-153PY 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-153PY 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 to directly measure the true density of powder.
- Rubber, Plastics and Elastic Materials Density Tester TTD-153PY equipped with RS-232 & USB Interface.
- Incorporates a large-size water tank design to minimize errors caused by buoyancy of the suspension rail.
- The water tank size is 148 × 100 × 85mm.

TECHNICAL SPECIFICATIONS

Model	TTD-153PY	
Max weight	150g	
Weighting precision	0.001g	
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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