



RUBBER, PLASTICS AND ELASTIC MATERIALS DENSITY TESTER TTD-LPY

Rubber, Plastics and Elastic Materials Density Tester TTD-LPY is a versatile and precise instrument for measuring density and porosity in rubber, plastics, and elastic materials. Available with maximum weight capacities of 1500g, 2000g, 3000g, and 6000g, it offers a weighing precision of 0.01g (0.1g for 6000g model) and a density precision of 0.001g/cm³.

Density Meter, Density Tester, Densimeter, Specific Gravity Tester

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Maximum Weight Capacity: 1500g / 2000g / 3000g / 6000g

Weighing Precision: 0.01g / 0.01g / 0.01g / 0.1g

Density Precision: 0.001g/cm³

- According to ASTM C20, C128, C127, C134, C135, C437, C357, AASHTOT 84 standard.
- The machine is equipped with 4 functions.
- Show Bulk density, Wet density, Porosity, Absorption, Apparent DS, Open pores, Close porosity, Total porosity directly.

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 :** Adopting the water saturation method for a porous material.
- 2. BK+ :** Adopting water saturation method for porous absorbent material. With five groups of memory functions.
- 3. Powder :** For powder products, use a pycnometer (optional) to directly read the true density of the powder.
- 4. DS :** Nonabsorbent material.

FEATURES

- The infrared temperature sensor automatically detects water temperature and compensates accordingly.
- Rubber, Plastics and Elastic Materials Density Tester TTD-LPY 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 simultaneously measuring 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. Additionally, it offers a function for two groups mixing ratio.
- Optional pycnometer available for direct measurement of powder true density.
- Rubber, Plastics and Elastic Materials Density Tester TTD-LPY equipped with RS-232 & USB Interface.
- Utilizes a large-size water tank design to minimize errors caused by buoyancy of the suspension rail.
- The water tank size is 210 × 170 × 120mm.

TECHNICAL SPECIFICATIONS

Model	TTD-LPY1500	TTD-LPY2000	TTD-LPY3000	TTD-LPY6000
Max weight	1500g	2000g	3000g	6000g
Weighting precision	0.01g			0.1g
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



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