

Application

It is mainly used for the determination of heat distortion temperature and Vicat softening point temperature of non-metallic materials such as plastic, hard rubber, nylon, electrical insulating materials, long fiber reinforced composite materials, high strength thermosetting laminates. It is easy to operate and precise in control. It is a highly intelligent test instrument widely used in colleges and universities, research institutes and product quality supervision and inspection units.

Features

- Multiple security protection: Mechanical temperature upper limit protection switch, software temperature upper limit protection, to ensure safe and stable operation of the test.
- High-precision measurement and control system: The high-performance temperature sensor and the advanced capacitive-type digital display dialimeter are used to accurately measure the small changes of the sample. The advanced PID algorithm and the all-optical isolation phase-modulation module are used for temperature control to ensure that the heating rate error is less than 0.5 °C.

Standard

ISO 2507 Thermoplastics pipes and fittings- Vicat softening temperature - Part1: General test method;

ISO 75 Plastics - Determination of temperature of deflection under load;

ISO 306 Plastics-Thermoplastic materials - Determination of Vicat Softening Temperature (VST);

ASTMD 1525 Standard Test Method for Vicat Softening Temperature of Plastics;

ASTMD 648 Standard Test Method for Deflection Temperature of Plastics Under Flexural Load in The Edgewise Position

Specifications:

Model	NG-3215
Temperature control range	Room temperature ~ 300 °C
Maximum temperature error	±0.5 °C (50 degree heating rate) ±1 °C (120 degree heating rate)
Heating rate	50°C/h、120°C/h
Temperature measurement point	1
Number of test racks	3 pieces
Deformation measurement range	-0.1~10mm
Maximum deformation error	±0.01mm
Sample support span	64mm、100mm
Using media	Methyl silicone oil or transformer oil
Cooling method	Natural cooling above 150°C, water cooling below 150°C or natural cooling