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HV-3000 P3 / P6 熱變形溫度試驗機 HDT / VICAT TESTER

ISO、JIS、ASTM、DIN、GB

本試驗機用於測試塑料試片加荷重(三點加荷重下的彎曲應力)的變形溫度(HDT變形溫度的測定)以及針柱穿陷時的溫度(Vicat軟化溫度測試法)。

HDT熱變形溫度的測定法：原理為一標準試樣在一固定荷重下，在平放位置(首選)或側向位置，承受三點彎曲而產生一曲折應力，溫度以一均勻速率(2°C/min)上升，測量達規定變形量時之溫度。

This tester is designed to measure both heat deflection temperature (HDT) and VICAT softening temperature (VST) to evaluate the thermal property of plastic materials.

The specimen is loaded in three-point bending with a uniform rate of temperature rise (2°C/min). Measure the temperature at which the specimen has deflected a specified amount at a specified stress. VICAT test: Place the specimen under a specified load with a selected uniform rate of temperature rise (50°C or 120°C/Hr). Measure the temperature at which the specimen is penetrated to a specified depth by a flat-ended needle with 1mm² cross-section.

控制方式 Display and control	PC+專用軟件
試驗組數 Test station	3 / 6
溫度範圍 Temperature range	常溫 Ambient temperature~300°C
控溫精度 Temperature accuracy	±0.5°C
升溫速率 Warm-up rate	2±0.2°C/min (HDT)或50±5°C/hr (VICAT)
冷卻方式 Cooling system	外部自來入水冷卻方式 (可擴展低溫冷卻系統)
測試模式 Test method	HDT、VICAT
變形量測量範圍 Deformation measuring range	0.001~3.500mm (LVDT感測)
試樣跨距 Support span	64mm、100mm、101.6mm 供選擇
攪拌方式 Stirrer	採用渦流攪拌方式，節省油槽空間。
體積 Dimension (W×D×H)	1100×650×850mm(不含計算機 main unit)
電源 Power	1φ AC 220V 50/60Hz



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