

function

The SCITEQ HDT/VICAT tester is designed to determine the Heat Deflection Temperature (HDT) or the Vicat softening point of plastic and thermoplastic samples. The HDT/Vicat tester complies with ISO 75, ISO 306, ASTM D 648, ASTM D1525, and equivalent.

highlights

simple set-up

robust construction

touch screen

high accuracy

quality product

table model

version 08/2012

features

Test specimens are charged with a constant load and immersed in a bath, where the temperature is increased at a standard velocity.

The attained heat resistance rate of plastic material is a widely required parameter for product characterization, for quality control and for evaluating the conformity to the previewed applications.



We wish to give our partners the tools to produce to the highest standard, while helping them to produce as cost-effectively as possible with Q.C. tools throughout the factory.

construction

The unit consists of a temperature controlled oil bath with three testing stations, each of which may be configured for either HDT or VICAT test methods.

The inner bath is constructed in stainless steel and the designed volume ensures a good thermal exchange.

The rod and frame members have the same linear thermal expansion coefficient.

The weight loading mechanism automatically lowers and raises weights. Test specimens are lowered and raised automatically into/from the oil bath.

With the optional software system it is possible to produce graphs showing the deformation of each specimen and temperature increase versus time.

The system is robust enough to be used in an industrial environment, as well as a laboratory.

associated | equipment

▲ | essential equipment

software

test weights

- temperature range:** approx. 20° to 300°C
- no. of stations:** 3 stations or 6 stations
- station lift:** fully automatic
- weight lift:** fully automatic
- temperature ramp rate:** user selectable via software
50°C/hour or 120°C/hour
- weights:** 1 g up to 1000 g
- heating:** immersed heating element. Fully automatic
- cooling:** fully automatic
- electrical supply:** 220/230 V 50/60 Hz
- water supply:** cold water source
- volume:** 17 litres tank capacity
- medium:** methyl silicon oil (not supplied as standard)
- dimensions:** dependant on model
- weight:** dependant on model



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software

test
weights