

function

The 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

Auto weight load

version 09/2021

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 or six testing stations with individual temperature probes. The test stations 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.

The HDT/Vicat tester is controlled by touch screen, equipped with software to control test temperature and deformation, describe & record test curves, output testing result.

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

VICAT	3 or 6 stations model
temperature range:	approx. 20° to 300°C
no. of stations:	3 stations or 6 stations
station lift:	fully automatic
weight lift:	fully automatic
Temperature measuring points:	3 points for 3 stations / 6 points for 6 stations
temperature ramp rate:	user selectable via software 50°C/hour or 120°C/hour
Temperature display error:	+/- 0,5°C
weights:	1 g up to 1000 g
heating:	immersed heating element. Fully automatic
cooling:	fully automatic
electrical supply:	220/230 V 50/60 Hz
Deflection measure range:	-0,2 mm ~ 10 mm
Deflection display error:	(max.) +/- 0,005 mm
water supply:	cold water source
volume:	17L for 3 stations 27L for 6 stations
medium:	methyl silicon oil (not supplied as standard)
dimensions:	dependant on model
net weight:	dependant on model
power supply	220VAC-15%~220VAC+10% Single-phase three-wire



SCITEQ A/S
 Gamma 3
 DK-8382 Hinnerup
 Denmark
 Tel: +45 86 96 19 33
 www.sciteq.com
 sales@sciteq.com