

## Product Information

### Vicat Dry



#### Range of applications

Determination of the Vicat Softening Temperature (VST)  
on thermoplastics according to ISO 306

#### No more annoying oil fumes !

The Vicat Dry instruments are very comfortable in operating and are especially used in research and development, but they are also used in incoming goods control and production monitoring. The oil free testing principle allows clean working without bothersome fumes.

The test is performed fully automatically. According to requirements, there are instruments available with 2 or 6 testing stations. testXpert II enables convenient parametrization of the test sequence and display of test values.

#### Automatic test sequence

As soon as the heating block has reached the starting temperature, the specimens are placed in the testing station, the instrument is pneumatically closed and the test weight prescribed by the standard is automatically placed.

After pre-tempering while under load, the travel signals are set to zero by the program, and the heating of the heating block at the pre-set rate is started. When the required penetration is reached at all stations, the heating is switched off and the test is ended.

The cooling is started automatically and the specimens can be taken out.

#### Specimen data

VST specimen dimensions, max.: 10 x 6.5 x 10 mm

#### Cooling

The instruments are equipped with compressed air cooling as standard. If an adequate compressed-air supply for cooling is not available, water can be used to cool the measuring stations.

#### Functions, elements and interfaces

- Built-in microprocessor controlled electronics for temperature regulation and test data acquisition
- Fully automatic test sequence
- Automatic control of the compressed air cooling
- Connection for liquid cooling
- Safety thermostat
- Very little warming of the casing
- Safety switch against squashing danger
- Serial interface for connection of a PC for test control and data acquisition with testXpert II
- Integrated compensation of the thermal expansion
- Integrated weight sets 10 and 50 N

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Instrument	Vicat 2-300 Dry	Vicat 6-300 Dry
Number of testing stations	2	6
Temperature range	+20 ... +300 °C	+20 ... +300 °C
Dimensions		
Height	610 mm	610 mm
Width	750 mm	750 mm
Depth	400 mm	400 mm
Weight (without accessories)	approx. 75 kg	approx. 95 kg
<b>Item number</b>	<b>326068</b>	<b>325987</b>

#### Technical data for all instruments

Indicated accuracy at 250 °C	± 0.5 °C
Ambient temperature curve	± 0.2 °C
Resolution of temperature measurement	0.1 °C
Temperature sensors: 2 x measur. of the heating block temp., in addition, 1 sensor near the specimen for each testing station	
Heating time: 50 K/h, 120 K/h or freely adjustable	

#### Travel measurement by inductive LVDT penetration transducers:

Travel measurement range	approx. 2.5 mm
Indicated accuracy	± 0.01 mm

#### Cooling times: (depending on coolant temperature)

with water	from 200 °C to 25 °C in approx. 15 min. at 12 °C water temperature
with air	from 200 °C to approx. 35 °C in approx. 25 min.

#### Supply:

Supply voltage	230/240 V
Mains frequency	50/60 Hz
Power	550 VA
Compressed air <sup>(1)</sup>	6-10 bar
Cooling water <sup>(2)</sup>	max. 10 bar

<sup>(1)</sup> A compressed-air supply is required for air-cooling

<sup>(2)</sup> A water supply is required for water-cooling

#### Accessories

Description	Item number
Vicat specimen cutting pincers for dimensioning of Vicat specimen, incl. stop for 10 mm specimen length	<b>750485</b>