



40-280-... Eco Vicat (oil-free)

Standards

ASTM D 1525, BSI 2782 (Method 120 C), DIN 53460, ISO 2507, ISO 306, NT T 51-021, UNE 53118



Application

Test devices for determining the VICAT softening temperature of thermoplastics

Features

Due to direct contact tempering Coesfeld's Eco Vicat series allows clean, oil free determination of the Vicat softening temperature. As soon as the test needles have penetrated 1 mm into the samples, the test ends automatically. The results are stored in the PC and the tester is cooled down to the preset start temperature. An intelligent controller detects faults, e.g. if a sample is penetrated completely or if samples start to melt. The standardized weight loading with 10 N or 50 N is carried out fully automatically, so the operator no longer has to handle weights.

Technical Data

Temperature range	from +20°C ... +300°C, resolution ± 0.1 K
Temperature gradient	50 K/h, 120 K/h or freely selectable
Start temperature	freely selectable
Inductive displacement gauges, resolution	0.001 mm
Inductive displacement gauges, accuracy	better than 0.01 mm
Compressed air supply	6-10 bar



Dimensions and Connection

	<i>ECO-Vicat 300/2</i>	<i>ECO-Vicat 300/3</i>	<i>ECO-Vicat 300/6</i>
Dimensions (WxDxH)	ca. 400 x 750 x 700 mm (open) / 400 x 750 x 620 mm (closed) with sample feeder: 1200 x 750 x 1150 mm		
Weight	46 kg	51 kg	64 kg
Mains	230 V, 50 Hz / 240 V, 60 Hz		
Power	800 VA		
Interfaces	RS232 output		
Air	pressurized air		
Cooling	Cooling water coil; optional: water circulator – heat exchanging time approx. 25 min. from 300°C to 23°C at 10°C cooling water		
Others	n.a.		

Device configuration

incl.	Item no.	Description
-	40-287-002	ECO-Vicat 300/2
-	40-280-003	ECO-Vicat 300/3
-	40-280-001	ECO-Vicat 300/6

Accessories

incl.	Item no.	Description
-	40-282-001	Automatic sample feed (only for use with the sixfold appliance 40-280-001) For the fully automatic continuous operation of the ECO Vicat tester, including magazine for 120 samples à 10x10x4 mm, Dimensions: 1000 x 800 x 600 mm, weight: 30 kg
-	60-005-010	Water circulator for connecting to ECO Vicat testers, heat exchanging time approx. 25 min. from 300°C to 23°C at 10°C cooling water
-	42-505	Small compressor for supplying compressed air, max. pressure 10 bar
-	97-316	Displacement calibration set for calibrating the LVDT displacement sensor
-	97-317	Temperature calibration set for calibrating the integrated temperature sensor
-	40-201	Cutting pincers for 10x10 mm Vicat specimen preparation