

40-060-... Quartz Tube Dilatometer

Standards

ASTM D696 – DIN 53752



Picture for illustration only

Application

The quartz tube dilatometer is designed to determine the coefficient of thermal linear expansion of plastics as a function of temperature according to DIN 53752 or ASTM D696.

Features

The dilatometer impresses with its simple instrument design for testing up to three specimens simultaneously. The gradient can be freely adjusted via the bath thermostat. The specimens can be taken directly from the standard dipstick to be used for testing. Intuitive software automatically controls the test sequence and records the results.

Technical Data

	40-060-001 – DIN 53752	40-060-010/-011 – ASTM D696
Stations	1 (3 on request)	1 (3 on request)
Displacement measurement	25 mm ± 0.001 mm	25 mm ± 0.001 mm
Temperature range	-20 to 200 °C depending on the tempering medium	-45 to 200 °C depending on the tempering medium
Temperature gradient	1 K/min – other selectable	Step Method: -30 °C / +30 °C
Temperature stability	± 0.02 K	± 0.02 K

Dimensions and Connections

	40-060-001 – DIN 53752	40-060-010/-011 – ASTM D696
Dimensions (DxWxH)	approx. 480 x 540 x 820 mm	310 x 510 x 736 mm (without support stand)
Weight	approx. 35 kg	44 kg (without support stand)
Mains	230 V, 50/60 Hz (40-060-001) (100-125 V; 50/60 Hz on request)	230 V, 50/60 Hz (40-060-010) 100-125 V; 50/60 Hz (40-060-011)
Connection	USB	USB



Device configuration

incl.	Article no.	Description
-	40-060-001	Single Quartz Tube Dilatometer DIN 53752 (230 V, 50/60 Hz) for specimen length 50/100 mm
-	40-060-010	Single Quartz Tube Dilatometer ASTM D696 (230 V, 50/60 Hz) for specimen length 50 to 125 mm
-	40-060-011	Single Quartz Tube Dilatometer ASTM D696 (100-125 V, 50/60 Hz) for specimen length 50 to 125 mm
-	40-065-002	Windows-Software QTDMETER for Quartz-tube dilatometer

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