

Model no. 1727

TENSILE CREEP TESTER



According to

ISO 16770

The tensile creep tester is used to determine the resistance of plastic samples in creep tensile tests. In the ISO 16770 test, the test specimen is subjected to a static tensile load in a temperature-controlled medium. The IPT tester is an all-rounder. 6 stations with 6 different temperatures from 40 °C (optionally 20 °C) up to 95 °C and variable tension levels up to 2,000 N can be programmed and operated independently of each other. The high regulation accuracy of the tension and the distance measurement accuracy, as well as the precise adherence to the predefined temperatures, distinguish the microprocessor-controlled unit. Each of the 6 test stations consists of an independent traction unit with separate controller (via PC) and separate test tank. Test samples can be added, tests started and stopped without affecting other tests in progress. As soon as the test parameters are set, the unit automatically takes over the control / regulation in interaction with the set sequence. The temperature controller of each of the 6 test tanks and the unique recirculation ensure a constant temperature level of ± 0.5 °C.

EASY AND SAFE OPERATION

- > Simple mounting of the samples in clamping jaws
- > Simple and safe introduction of the samples into the test tank without contact between the test personnel and the fluid

RELIABLE TEST RESULTS

- > High accuracy of regulation of load and distance measurement
- > Precise temperature compliance
- > Smooth and torsion-free application of force

LASTING EFFICIENCY

- > High-quality unit components guarantee high reliability and a long service life

STATE-OF-THE-ART TECHNOLOGY

- > 6 stations can be programmed and operated independently of each other at 6 different test temperatures and various test forces

VERSION TENSILE CREEP TESTER

V1727-0003

Temperature range	°C	40 - 95 (20 °C only with cooled medium tank)
Temperature accuracy	°C	± 0.5 in the entire tank
Level compensation		automatic with dosing pump
Sample dimensions (W x D x H)	mm	max. 10 x 10 x 170
FORCE MEASUREMENT		
Load cell 200 N		+
Load cell 500 N		+
Load cell 1,000 N		+
Load cell 2,000 N		+
Preload		preselectable up to the max. force of load cell time specification max. 9,999 s
Accuracy	%	±0.5 of full scale of load cell minimum ±1 N additionally ±0.1 % per 5 °C change of the ambient temperature
Maximum extension	mm	50
Distance measurement		length measurement via incremental encoder
Accuracy of distance measurement	mm	± 0.05

✓ included

+ available/optional

O eligible

- not available

* available upon request

VERSION TENSILE CREEP TESTER

V1727-0003

Number of stations		6
Number of medium tanks		6
Standard medium tank with insulation (for tests at 40 °C ... 95 °C)		✓
Cooled medium tank with insulation (for tests at 20 °C ... 95 °C)		+
Volume of standard medium tank with insulation	l	1.5
Volume of cooled medium tank with insulation	l	1.5
Level compensation		automatic with dosing pump
Permitted media		Only media that comply with the specifications for the extraction system and the active carbon filter are permitted
Mounting aid		+
Notch device for sample preparation		+
Cooling system for conditioning the medium tanks at 20 °C		+
Test chamber - explosion protection EX II 2G T3 - vertically windscreen slide		+
Volumetric flow controller II 2G Ex c T6		+
Extraction system		+
Operation via IptDataLogging®		✓
CE conformity		✓
Permissible ambient temperature	°C	+5 to +30
Permissible relative humidity	%	max. 70 non-condensing
Noise emission	dB(A)	< 70
Dimensions (W x D x H)	mm	1,790 x 1,000 x 2,460
Weight	kg	ca. 730 (fully equipped)
Voltage data		230/400 V, 50 Hz * other voltages

✓ included

+ available/optional

○ eligible

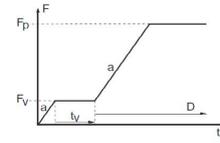
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* available upon request

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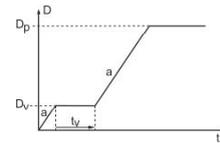
TEST MODE

Test mode creep test (constant load)



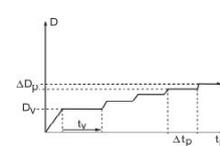
✓

Test mode relaxation (constant elongation)



✓

Test mode subsidence (stepwise elongation)



✓

Preload function

✓

✓ included

+ available/optional

○ eligible

- not available

* available upon request

ACCESSORIES TENSILE CREEP TESTER

Product

Description

Model no.



Notch cutting device for sample preparation

1598



Test data management software
IptDataLogging®

1780