



CLASH & BERG



DESIGN AND PRODUCTION OF
INSTRUMENTS AND APPARATUS
FOR QUALITY CONTROL
ON MATERIALS



These instruments are made in
compliance with CE health and
safety requirements



Clash & Berg - code 6550.000

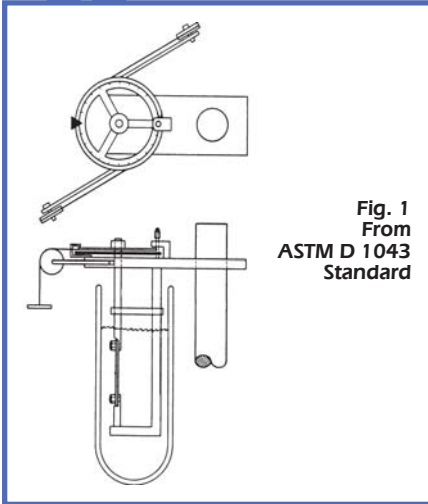


Fig. 1
From
ASTM D 1043
Standard

The Clash & Berg Torquemeter 6550.000 is specifically designed for determining the apparent rigidity torsional modulus «G», or tangential apparent modulus. Once «G», and the Poisson ratio of the material being tested are known, the apparent modulus of longitudinal elasticity, also called Young's modulus, can be calculated. Both are apparent modulus, and they are measured as a direct function of the test temperature.

Determinations are carried out on specimens, prepared either by die punching or contour milling, of plastics thermoplastics-rubber-elastomers and other similar materials.

The testing principle specifies that the specimen must be firmly held by two clamps, one fixed, one rotating; the latter to be directly connected to the system which applies torque to the specimen.

The reading system for regular variation is connected to the rotating clamp. The test takes place in an insulated cell.

Standards

Designed and built to meet the following standards:
ASTM D 1043 - ISO 458 - DIN 53447 - BSI 2782 Method 153A
and others equivalent.

Technical Characteristics

- Working temperature range:
 - 70 to +250°C
 - PID temperature controller "Eurotherm" in connection with a Pt100 thermoresistance
 - semiautomatic, after preset temperature has been reached and held for 3 min and 15 s
 - automatic brake-release of load systems
 - automatic angle reading after 5 s and optical signal of cycle end
 - fixed insulated lid to operate up to +250°C
- Temperature regulator:
- Test performance
 - the test weights are made up by the following couples of weights and the corresponding output torque:
 - 4.4 g - 0.01 Nm
 - 13.2 g - 0.02 Nm
 - 39.6 g - 0.05 Nm
 - 86.6 g - 0.10 Nm
 - 171.6 g - 0.20 Nm
 - 215.6 g - 0.25 Nm
 - thickness from 1 to 5 mm
 - width from 6 to 6.4 mm
 - adjustable between 38 and 100 mm
 - by armoured resistance elements
 - by Carbon Dioxide or by circulation of a cooling fluid in a thermic-exchange coil produced by a separate cryostat
- Thermic protection
- Test weights and torque
- Specimen size
- Specimen clamps span
- Heating system
- Cooling system

Options

- Interchangeable thermometers
 - with the following scale:

- 80 to + 20 °C - 1°C div.	code 0100.021
+ 10 to + 110 °C - 1°C div.	code 0100.022
+ 100 to + 200 °C - 1°C div.	code 0100.023
+ 190 to + 290 °C - 1°C div.	code 0100.024
- Couples of weights
 - 3 g code 6500.106
 - 8 g code 6500.107
 - 13 g code 6500.108
 - 18 g code 6500.109
- Hollow punch ASTM D 1043
 - 6.35 x 63.5 mm code 8036.000 - 8036.020
 - 6.35 x 125.4 mm code 8081.000 - 8081.020

Technical Data

- Overall dimensions (basic apparatus)(LxDxH) 490 x 400 x 1080 mm
- Overall dimensions (control box)(LxDxH) 400 x 290 x 230 mm
- Supply 230 V - 50 Hz - Singlephase
- Power 1200 W
- Paint blue RAL 5014 - gray RAL 7035

"Due to the continuous development policy of CEAST's Research and Development Department, changes may be introduced without notice"



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