



ADVANCED PAVEMENTS TESTING SYSTEMS

BBR

Bending Beam Rheometer



Determination of flexural creep stiffness

Standards ASTM D6648 | AASHTO T313 | EN14771

Main Features

- Durable, corrosion-resistant construction
- Computerized control, data acquisition and analysis
- PID temperature controller with digital display
- Two independent platinum RTDs for precise temperature control
- Mechanically-refrigerated cooling bath with environmentally-safe non-CFC coolant
- Integral LVDT and temperature compensated load cell for accurate test results
- Includes complete calibration kit with carrying case
- Includes ASTM/AASHTO-compliant specimen moulds
- PC and software included

81-PV5902

Bending Beam Rheometer (BBR)

The BBR System consists of a fluid bath base unit, a three-point bending test apparatus which is easily removed from the base unit for specimen loading and unloading, an external cooling unit with temperature controller, and a calibration hardware kit with carrying case.

The system is supplied complete with PC and testing software.

Ordering information

81-PV5902

Bending Beam Rheometer (BBR).

230 V, 50-60 Hz, 1 ph.

81-PV5904

As above but 115V, 50-60 Hz, 1 ph.

Spares

81-PV059/1

Extra aluminium beam mould.

81-PV059/2

Set of 36 plastic strips for BBR specimen moulds.

Technical specifications

- Load frame: integral stainless steel frictionless construction
- Loading shaft: in-line stainless steel with blunt point
- Load cell: 500 g (temperature-compensated)
- Mechanical overload protection: standard
- Test cycle times: cycle times for pre-load, recovery and test load are completely operator-adjustable
- Test weights: calibrated and traceable
- Sample supports: 25 mm (0.98 in.) diameter stainless steel spaced 101.6 mm (4.00 in.) apart
- LVDT displacement transducers: 6.35 mm (0.25 in.) calibrated range to provide 2 µm resolution throughout testing and verification range
- Cooling unit: included (non-CFC refrigerant)
- Recommended cooling bath fluid: non-flammable ethylene glycol mixture
- Operating temperature: ambient to -40 °C (-40°F)
- Temperature measurement: Platinum RTD
- Compressed air requirement: 0.34 MPa (50 psi) clean, dry air supply required

Test load

- Variable test range from 0 to 200 g standard
- System maintains required test load to within ±0.5 g throughout the test cycle

Testing software

- Display of load, displacement and bath temperature provides ease of setup and operation
- Real-time displacement, loading, and temperature graphs are displayed during the test cycle and can be re-scaled as needed for easy viewing

Shipping weight: 115 kg approx.



Sample supports (moulds) and Calibration kit

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IPC Global

T +613 9800 2200 F +613 9800 2813 E ipcglobalsales@controls-group.com www.controls-group.com/ipcglobal

Controls Group

T +39 02 92184 1

F +39 02 92103 333

E sales@controls-group.com

www.controls-group.com

France

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