

BENDING BEAM RHEOMETER BBR PRO PLUS

STANDARD: ASTM D6648, AASHTO T313, AASHTO TP125, EN 14771, AASHTO M320, AASHTO M332

The Bending Beam Rheometer BBR Pro Plus is a device used to test the flexural creep stiffness of asphalt binders at low temperature. It evaluates the low-temperature cracking resistance characteristics of asphalt binders, providing test results including low-temperature creep stiffness $S(t)$ and the creep stiffness change rate $m(t)$.

FEATURES

- Computer software for control and display, showing real-time deformation, pressure, and temperature curves.
- Built-in LVDT calibration device for simple and convenient calibration.
- High-performance chiller enables fast cooling: 40 minutes from room temperature to -18°C , with high temperature control accuracy.
- The chiller is connected to the main unit via flexible hoses and placed separately to prevent vibration from affecting test results.
- USB communication port for easy data export.
- Overload protection and fault warning functions with buzzer alarm and fault code display.
- Stainless steel shell for aesthetics, easy cleaning, and durability.
- Adjustable test time for verifying deformation beyond 240s (default: 240s).
- Software-configurable time points for calculation (default: 8s, 15s, 30s, 60s, 120s, 240s).
- Two-stage air filtration to prevent impurities from affecting test accuracy.



TECHNICAL SPECIFICATIONS

Displacement sensor range/resolution	0–10 mm / 5 μm
Load cell range/resolution	0–4900 mN / 2 mN
Load capacity	980mN
Loading frequency	From static to 25Hz
Temperature sensor range/accuracy	-50°C to room temperature / $\pm 0.1^{\circ}\text{C}$
Fluid bath temperature control range/accuracy	-40°C to room temperature / $\pm 0.1^{\circ}\text{C}$
Fluid bath capacity	5 L
Specimen size	127 × 12.7 × 6.35 mm
Sample support top radius	3 $\pm$ 0.3mm
Loading shaft radius	6.3 $\pm$ 1.3 mm spherical contact point
Power supply	Main unit: AC 220V 50/60 Hz, 1 kW
	Control console: AC 220V 50/60 Hz, 1.8 kW
	Chiller: AC 220V 50/60 Hz, 3 kW
Main unit dimensions	610 × 610 × 620 mm
Main unit weight	80 kg



SINCE 2006

ZHUOZHOU TIANPENG INSTRUMENT MANUFACTURING CO., LTD.
Website: www.testmould.com Tel: +86-312-3852880