

SYD-4508G Bitumen Ductility Machine



Summary

The instrument is designed and made as per national standard GB/T 4508-2010 Standard Test Method for Ductility of Bitumen and T0605-2011 Asphalt Ductility Test in JTG E20-2011 Standard Test Methods for Bitumen and Bituminous Mixtures for Highway Engineering of the People's Republic of China. The method is applied to the GB/T 4508-2010 and T0605-2011 standards. Determination of petroleum asphalt under the predetermined conditions and in a certain temperature, at a certain speed stretch, to fracture length, called petroleum asphalt ductility, expressed in cm. And two samples of it can be used to do the tensile strength test.

I. Main technical features

1. It adopts humanized design philosophy. There is no leading screw, lead rail or other components in the test though. It adopts innovative transmission design. The stretching is stable and synchronous. There is no tremble and the speed is uniform. The sample can be easily installed in and the maximum measurement distance can reach 1.5m.
2. It can determine ductility of three samples and tensile forces of two samples by one analysis.
3. It adopts PC control technology. The temperature control accuracy is high. It has the function of automatic specimen positioning. The ductility determination can be operated remotely. Equipped with a communication port, it achieves the communication with PC conveniently.
4. It adopts large LCD to show the temperature, ductility, tensile force clearly.
5. It equips a needle micro-printer to print out the test results automatically (Ductility, average value, maximum tensile force and the changing curves).
6. The specimen can return and position automatically after the determination.

II. Main technical specifications

1. Power supply: AC (220±10%) V、50Hz
2. Measurement distance: 1.5m (±10mm)
3. Heating power: 3200W
4. Temperature control: Range: (5~35)°C, accuracy: ±0.1°C
5. Tensile speed: (10~50)mm/min, step-less adjustment. accuracy: ±1mm
6. Tensile test: Range: (0~300)N, accuracy: ±1N, resolution: 0.1N
7. Data output: (1) Communication port RS232
(2) Printed by micro-printer
8. Refrigeration: Compressor 1.0P, input power is 800W
9. Ambient temperature: (-10~+35)°C。
10. Relative humidity: ≤85%
11. Maximum power consumption: 4100W
12. Overall dimension: 2365mm×530mm×1000mm