

Mar Resistance Tester

What is “Mar” : blemish on the surface of a coating, extending over a particular area of the coating and visible due to the difference in the light-reflection properties of the area affected compared with the light-reflection properties of adjacent areas.

Mar resistance test for coatings is very similar with scratch resistance test, but this test uses arc (loop-shaped or ring-shaped) stylus to test the mar resistance of a single coating of a paint, varnish or related product, or the upper layer of a multi-coat system.

The product or system under test is applied at uniform thickness to flat panels of uniform surface texture. After drying/curing, the mar resistance is determined by pushing the panels beneath a curved (loop-shaped or ring-shaped) stylus which is mounted so that it presses down on the surface of the test panel at an angle of 45°. The load on the test panel is increased in steps until the coating is marred.

This test has been found to be useful in comparing the mar resistance of different coatings. It is most useful in providing relative ratings for a series of coated panels exhibiting significant differences in mar resistance. Kindly note this test does not specify a method using a pointed stylus, two of which are specified in ISO 1518-1 and ISO 1518-2, respectively. The choice between the three methods will depend on the particular practical problem.

BGD 536 Mar resistance Tester produced by Biuged confirms the newest international standard ISO 12137-2011, ASTM D 2197 and ASTM D 5178. It can offer from 100g to 5,000g load to test panel.

Characters

- ◆ Working speed can be adjusted from 0 mm/s~10 mm/s
- ◆ Double adjusting balance device to reduce the test error because of level.
- ◆ Moveable working table is convenient for operator do more tests at different areas in the same test panel.
- ◆ Lifiable balance arm can do mar test on the different thickness panels from 0mm~12mm

Main Technical Parameters:

- ★ Motor Power: 15 W
- ★ Working Distance: 80 mm
- ★ Weights: 1 × 100 gram, 2 × 200 gram, 1 × 500 gram, 2 × 1000 gram, 1 × 2000 gram
- ★ Ring-shaped Stylus: Diameter (6.5 ± 0.1) mm, R0.8 ± 0.02, Thickness (1.6 ± 0.02) mm; With smooth surface and hardness is RockWell HRC56 to HRC58 and its surface shall be smooth (roughness ≤ 0.05 μ m).
- ★ Stylus moving speed: 3 mm/s~10 mm/s (step: 0.5mm/s)
- ★ Angle between stylus with test panels: 45°
- ★ Suitable Test panels Width: 40 mm~110 mm
- ★ Suitable Test panels Thickness: 0 mm~12 mm
- ★ Power: Input 110~240V AC 50/60Hz (Power adapter output 24V, 2A)
- ★ Overall Size: 540mm × 250mm × 375mm (L × W × H)
- ★ Weight: 15kg
- ★ **Ordering information:**
- BGD 536---Mar Resistance Tester
- BGD 536/J-059---Ring-shaped Stylus



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