

Mar Resistance Tester (ISO 12137 & ASTM D 2197 & ASTM D 5178)

BGD 536

Product Description

Mar resistance test for coatings is very similar with scratch resistance test, but this test uses an arc stylus (loop-shaped or ring-shaped) 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.



Standards

- ISO 12137-2011
- ASTM D 2197
- ASTM D 5178

Technical Specification

- Working speed can be adjusted from 3mm/s~10mm/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

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Main Technical Parameters

Motor Power	15W
Weights	1 x 100g; 2 x 200g; 1 x 500g; 2 x 1000g; 1 x 2000g
Ring Shaped Stylus	Diameter: 6.5 ± 0.1 mm; R: 0.8 ± 0.02 ; Thickness: 1.6 ± 0.02 mm; Hardness: RockWell HRC56 to HRC58. Smooth surface (roughness ≤ 0.05 μ m)
Stylus moving speed	3mm/s~10 mm/s (steps of 0.05 mm/s)
Angle between stylus and test panels	45°
Test Panel Width	40mm~110mm
Test Panel Thickness	0~12 mm
Power	Input 110~240V AC 50/60Hz (Power adapter output 24V, 2A)
Dimensions	540mmx250mm x 375 mm (L x W x H)

Ordering Information: BGD 536 Mar Resistance Tester

Disclaimer

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