811-335

8112-336

Hardmatic HH-300

SERIES 811 — Durometers for Rubber and Plastics Hardness Testing

Technical Data

- Designed in accordance with the ASTM D 2240, ISO868, ISO 7619, DIN 53 505, JIS K 6253, and JIS K 7215 specifications.
- Units are available in both Shore A and Shore D scales, and suit a wide variety of applications.
- The Digital Durometer is provided with data hold function, permitting the operator to make an error-free reading on the LCD screen.
- The Dial Durometer is provided with a peak retaining hand for error-free reading.

Optional Accessories

19BAA180: Holding bar*

811-019: Testing stand (Shore A)
811-012: Testing stand (Shore D)
811-013: Testing stand (Shore A)**
811-014: Testing stand (Shore D)**
811-017: Auxiliary weights (Shore A)
811-018: Auxiliary weights (Shore D)
811-018: Auxiliary weights (Shore D)

*Only available on Compact Type Durometer. **Long-leg Type Durometer attachment is included.

Testing stand applications

These stands are used to mount Durometers. They allow constant-pressure hardness measurement by ensuring that the Durometer presses vertically on the workpiece surface at all times.

- Anyone can perform repeatable hardness measurement due to fewer possibilities of human error and measurement variations.
- The supplied weights can be attached directly to a Durometer and allow constant-pressure hardness measurement of large samples for which a stand cannot be used.
- The supplied weights are used for calibrating the spring tension of Durometers.



- Workstage dimension: ø90mm
- Maximum specimen height: 90mm



Refer to the Hardmatic HH-300 leaflet (E4137) for more details

FEATURES

Digital / Dial Durometers are suitable for testing the nature of the following materials — natural rubber, neoprene, polyesters, P.V.C., leather, Thiokol, nitrite rubber, wax, vinyl, cellulose acetates, glass polystyrene,



SPECIFICATIONS

Model No.	Digital	HH-336	HH-336-01	HH-332	HH-338	HH-338-01	HH-334
	Dial	HH-335	HH-335-01	HH-331	HH-337	HH-337-01	HH-333
Order No.	Digital	811-336	811-336-01	811-332	881-338	811-338-01	811-334
	Dial	811-335	811-335-01	811-331	881-337	811-337-01	811-333
Scale		Shore A			Shore D		
Applications		Natural rubber, soft elastomers, etc.			Hard elastomers, plastics, hard rubber, ebonite, etc.		
Resolution		0.5 (digital) or 1 (dial)			0.5 (digital) or 1 (dial)		
Range		HA: 10 - 90			HD: 20 - 90		
Standards	ASTM D 2240	1	✓		1	✓	
	ISO 868	1	✓		1	✓	
	ISO 7619	1	✓		1	✓	
	DIN 53 505	_	✓		_	✓	
	JIS K 6253	1	✓		1	✓	
	JIS K 7215	1		1	1		✓
Pressure foot		44x18mm	ø18mm		44x18mm	ø18mm	
Spring force (mN)		550+75H (Hardness reading: 10-90)			444.5H (Hardness reading: 20-90)		
Indenter		Blunt taper (Tip diameter: 0.79mm)			Sharp point (Tip curvature: 0.1±0.01mm)		
Tip angle		35°±0.25°			30°±0.5°		
Indenter diameter		1.25mm					
Indenter protrusion		2.5mm					
Functions		Digital: Data hold, Zero -setting, SPC output, Power ON/OFF (Power supply: SR44 x 1pc.) Analog Durometer: Peak retaining hand					
Туре		Compact		Long-leg	Compact		Long-leg
Dimensions (WxDxH)	Digital	60x28.5	x151mm	60x28.5x193mm	60x28.5x151mm		60x28.5x193mm
	Dial	56x33.5	x144mm	56x33.5x186mm	56x33.5x144mm		56x33.5x186mm
Mass	Digital	29	10g	310g	290g		310g
	Dial	30	10g	320g	30	10g	320g