bareiss®
PRÜFGERÄTEBAU GMBH

HPE III BASIC

EN

ASTM D2240 | DIN EN ISO 868 | DIN ISO 48-4 | JIS K 6253

Digital handheld hardness tester for the measuring of Shore hardness, with illuminated display and integrated compression sleeve for vertical support and standard contact pressure.

Our handheld hardness tester HPE III Basic can be used for simple, manual measurements of Shore hardness, on flexible cellular plastics, polymers and composite materials. Thanks to its smart functions, the device prevents operating errors, and it is simple to use.

The Bareiss handgrip, with integrated compression sleeve, allows you to reliably set the hardness tester at the right angles and with standard-compliant pressure on the flat test specimen. After the specified measuring time has concluded, the HPE III Basic confirms the successful measurement through an acoustic signal and shows the measured value, with the respective date and time, on the illuminated display. The internal memory can store up to 300 measured values, which can be exported in various formats using the supplied RS-232 / USB cable.

MEASURING METHODS

DIN EN ISO 48-4	ASTM D2240
Shore A	Shore 0
Shore A0	Shore 00
Shore D	Shore 000
	Shore 000S
	Shore E
Asker C	Shore B
Asker CS	Shore C
Asker F	Shore D0

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MAIN CHARACTERISTICS

TECHNICAL SPECIFICATIONS

Measurements W x D x H: 68 x 51 x 157 mm

Weight approx. 300 g

PACKING UNIT WITH CASE

Weight approx. 700 g

SCOPE OF DELIVERY

HPE III Basic handheld hardness tester

Lithium-ion battery

RS-232/USB data and charging cable

Control ring 40 Shore A

Operating manual

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ACCESSORIES

Automatic test stand, type BSA
The automatic test stand guarantees the standard-compliant lowering and the precise 90° support of the handheld hardness tester.

Manual test stand, type BS 61
The test stand with manual lowering guarantees the precise 90° support of the handheld hardness tester.

Control device for checking the spring force A/D
The control device can be used to check the spring force of the handheld hardness tester.

Prisms Ø 4 – 10 mm or Ø 40 – 100 mm
The prism stabilizes the handheld hardness tester when placed on cylindrical test specimens.

DAkkS Deutsche Akkreditierungsstelle D-K-15206-01-00

DAkkS calibration certificate The calibration takes place according to DIN EN ISO/IEC 17025, being confirmed with a DAkkS calibration certificate.

Control rings with DAkkS calibration certificate
The measuring path of the hardness tester, within the defined hardness range, is monitored with the help of the control rings.

Reference elastomer blocks with DAkkS calibration certificate, single set/set of 3 or 6
Reference elastomer blocks can be used to check the indenter and measuring path of the hardness tester according to DIN ISO 48.

„Hardtest“ Software
The software controls the hardness and hysteresis measurement processes undertaken with Bareiss testing devices.

REFERENCE
As an alternative to our basic model HPE III Basic, the premium handheld hardness tester HPE III records the date and time, as well as environmental conditions, such as the temperature, humidity, and sample temperature, while performing the hardness measurement.

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MEASUREMENT METHOD	MATERIALS	STANDARDS	MAT. THICKNESS MIN. [MM]
Shore A	Soft rubber, elastomers, natural rubber products, neoprene, cast resin, polyester, soft PVC, leather, pressure rollers, etc.	DIN EN ISO 868	4
		ISO 48-4 (former DIN ISO 7619), ASTM D 2240, JIS K 7312	6
Shore D	Hard rubber, plastics, acrylic glass, polysty-rene, rigid thermoplastics, formica, printing rollers, vinyl plates, cellulose acetate, etc.	DIN EN ISO 868	4
		ISO 48-4 (former DIN ISO 7619), ASTM D 2240, JIS K 7312	6
Shore 00	Cellular rubber, foam rubber, silicone	ASTM D 2240	6
Fff	Consistency of flesh		
Asker C	Soft rubber, elastomers, natural rubber products, neoprene, cast resin, polyester, soft PVC, leather, pressure rollers, etc.	SRIS 0101	6
Shore L/c	Foam, soft elastic materials, uphol-stery, steering wheels	ISO 48-4 (former DIN ISO 7619), ASTM D 2240	6
Shore 000S	Cellular rubber, foam rubber, silicone	ASTM D 2240	6
Shore L	Foam, soft elastic materials, uphol-stery, steering wheels	ISO 48-4 (former DIN ISO 7619), ASTM D 2240	6
Shore C	Plastics, medium hard rubber	ASTM D 2240	6
Shore AM	Soft rubber, elastomers, natural rubber products, neoprene, cast resin, polyester, soft PVC, leather, pressure rollers, etc.	ISO 48-4 (former DIN ISO 7619)	1,25
Shore M	Soft rubber, elastomers, natural rubber products, neoprene, cast resin, polyester, soft PVC, leather, pressure rollers, etc.	ASTM D 2240	1,5

MADE IN GERMANY SINCE 1954.

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ilac-MRA DAkkS Deutsche Akkreditierungsstelle D-K-15206-01-00

The accreditation is valid for the scope listed in certificate D-K-15206-01-00 (mechanical measurands in the range of hardness).