bareiss®
PRÜFGERÄTEBAU GMBH

HPE III BASIC

EN

ASTM D2240 | DIN EN ISO 868 | DIN ISO 48-4 | JIS K 7312

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

Shore A	Shore 0
Shore A0	Shore 00
Shore D	Shore 000
	Shore 000S
	Shore E | L | L/c
	Shore B
Asker C	Shore C
Asker F	Shore D0

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MAIN CHARACTERISTICS



Measured value recording, with date and time included

Adjustable measuring time 1-99s

Illuminated display

Lithium-ion battery

Compression sleeve for guided placement and standard-compliant contact pressure



RS-232 cable with USB connection for data transfer and charging

Integrated peak function which records the maximum value of a measurement before the occurrence of the relaxation typical for elastomers

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 II
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.



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

REFERENCE
The HPE III Basic is designed for hardness testing on plane-parallel specimens. For applications involving frequent changes in test methods or specimen geometries, our modular digi test II offers a flexible alternative with easily interchangeable measuring units.

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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
		DIN ISO 48-4, ASTM D 2240, NFT 51-174	6
Shore D	Hard rubber, plastics, acrylic glass, polystyrene, rigid thermoplastics, formica, printing rollers, vinyl plates, cellulose acetate, etc.	DIN EN ISO 868	4
		DIN ISO 48-4, ASTM D 2240, NFT 51-174	6
Shore B	Middle hard materials from rubber, typewriter roles, flat materials	ASTM D 2240	6
Shore 0	Soft elastic materials, pressure rolls, middle firm, textile fabrics, nylon, orlon, perlon, rayon	ASTM D 2240	6
Shore A0	PUR foams, leather covers	DIN ISO 48-4	6
Shore E, L/c und L	PUR foams, leather covers	ASTM D 2240	6
Asker C	see Shore A	SRIS 0101, JIS K7312 ABNT NBR 14455	6
Shore C	plastics and middle hard rubber materials	ASTM D 2240	6
Shore D0	Plastics and middle hard- hard rubber materials	ASTM D 2240	6
Shore 00 Shore 000 Shore 000S	Cellular rubber, foam rubber, silicone	ASTM D 2240	6
Shore AM	Soft rubber, elastomers, natural rubber products, neoprene, cast resin, polyester, soft PVC, leather, pressure rollers, etc.	DIN ISO 48-4	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).