

HPE III

EN

ASTM
D2240

DIN
EN ISO
868

DIN
ISO
48-4

Digital premium handheld hardness tester for the Shore hardness measurement with illuminated display, sensors for the recording of environmental conditions and integrated compression sleeve for vertical support and standard contact pressure.



With the handheld hardness tester HPE III, you can effortlessly measure Shore hardness levels on flexible materials, polymers and composite materials. Its sophisticated functions ensure a correct measuring process, offering protection against operating errors.

Thanks to the functional handgrip with integrated compression sleeve, the hardness tester can be reliably guided and placed on the specimen with standard-compliant contact pressure. During the hardness measuring, the HPE III registers humidity, environmental and sample temperature, as well as the date and time. After the specified measuring time has elapsed, it will notify the user of the successful measuring with an acoustic signal. All the measurement data is then shown on the illuminated display, and it can be conveniently exported in various formats, using the RS232/USB cable, delivered with the product.

MEASURING METHODS

Shore A	
Shore D	

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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 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.



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.



Manual test stand, type BS 61 II

The test stand with manual lowering guarantees the precise 90° support of the handheld hardness tester.



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.



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.



Temperature calibration certificate (HPE III)



Prisms \varnothing 4 – 10 mm or \varnothing 40 – 100 mm

The prism stabilizes the handheld hardness tester when placed on cylindrical test specimens.



Software

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



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

REFERENCE

The HPE III is equipped for hardness measuring on plane-parallel specimens, either according to Shore A or Shore D. Our modular digi test II with flexibly exchangeable measuring devices represents an alternative to the frequent changing of measuring methods or sample geometries.

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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

OTHER MEASUREMENT METHODS – HPE III BASIC

Shore B	Middle hard materials from rubber, typewriter roles, flat materials	ASTM D 2240	6
Shore O	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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The accreditation is valid for the scope listed in certificate D-K-15206-01-00 (mechanical measurands in the range of hardness).