

HPSA HARDNESS TESTER

**** code 255F ****

HPSA Durometer according to Shore A for determining the surface hardness of soft rubber, elastomers, natural rubber, soft PVC, leather, etc.

Shore A hardness tester according DIN 53505, ISO 7619, ISO 868 and ASTM D2240 with large seating for accurate measuring

Special Features

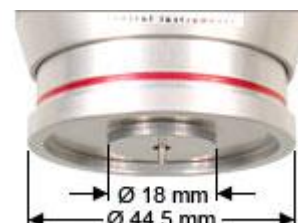
- The spring-loaded outer ring assures a constant measuring pressure and eliminates false readings due to difference among operators.
- Flat bottom prevent tilting and improves the measuring accuracy
- Working face $\varnothing 18$ mm
- Adjustable Min./Max. indicator marks to highlight the working range of the hardness tester
- Optionally available: Inspection Certificate 3.1 according EN 10204 with calibration report.



Standard Features

Easy to use

- High repeatability
- Application range 10 - 90 Shore A units
- Certificate of Compliance 2.1 according to EN 10204 is included.



Operation

For measuring the hardness, the spring-loaded outer ring of the housing is pressed downwards until the edge of the ring meets the colored marking on the housing. This ensures a constant pressure and prevents measuring errors.

General information:

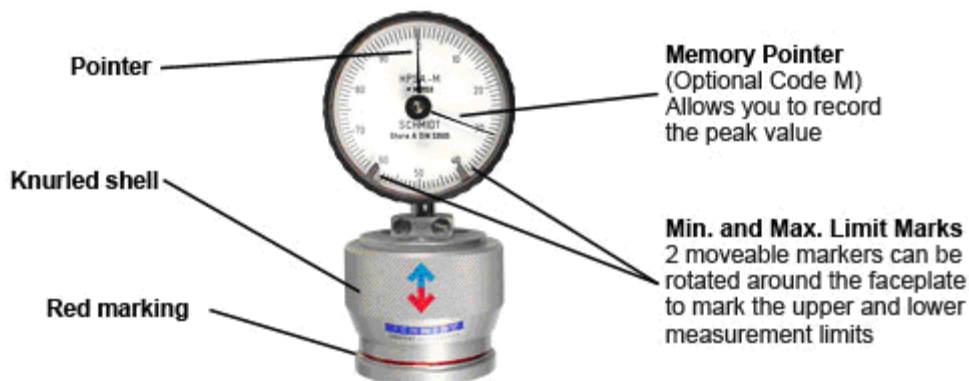
The principle used to measure shore hardness is based on measuring the resistance force of the penetration of a pin into the test material under a known spring load. The value of penetration is converted to hardness reading on a scale with 100 shore units.

As the depth of indentation is max. 2.5 mm, the test material has to have a minimum thickness of 6 mm. If thickness is less stack some samples till you reach the required thickness.

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Available model

CODE	Model	Shore	Application
255F	HPSA	A	soft rubber, elastomers, natural rubber, soft PVC, leather, etc.
	HPSA-R-M	A	rubber coated rollers, rollers, and cots
	HPSAO	AO	foams, steering wheels and inner linings of motor vehicles
	HPSB	B	for harder material than Shore A
	HPSC	C	medium hard rubber, elastomers and plastic
255L	HPSD	D	hard rubber, rigid thermoplastic, resopal and hard plastic materials
	HPSDO	DO	plastic and medium hard to hard rubber materials
255M	HPSO	O	soft elastomers, soft elastic materials, medium fast textiles

Indentor

Cone	Tapered pin	U-grooved	Ball
			
Shore A Shore C	Shore B Shore D	Shore O Shore DO	Shore AO

Specifications

Indentor:	Cone 35°, Ø 1.25 mm
Depth of indentation:	0 – 2.5 mm
Typical applications:	Soft rubber, elastomers, natural rubber, soft PVC, leather, etc.

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Accuracy:	± 1 hardness unit
Application range:	10 – 90 Shore A
Standard:	DIN 53505, ISO 7619, ISO 868, ASTM D 2240
Measuring spring force:	0.55 – 8.065 N
Test pressure*:	Approx. 12.5 N
Display range:	0 – 100 Shore A units
Scale diameter:	54 mm
Working face:	18 mm Ø
Base plate:	45 mm Ø
Weight, net (gross):	Approx. 300 g (500 g)
Dimensions (L x W x H):	50 x 58 x 114 mm
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* Spring load of outer ring to create constant pressure

Attachment and accessories

	<p>Memory pointer</p> <p>Memory pointer to capture and store value (last or highest reading) during measuring.</p>
	<p>Test stand</p> <p>Model for series measurements;</p> <ul style="list-style-type: none"> • 0 - 200 mm adjustable height. • 40 mm stroke lever action. <p>Various plates available as optional</p>
	<p>Control Ring</p> <p>To determine the displacement at 20 Shore degrees</p>
	<p>Control rings</p> <p>To determine the displacement at 20, 40, 60, 80 and 100 Shore degrees</p>
	<p>Calibration Report (optional)</p> <p>Inspection Certificate 3.1 according to DIN EN 10204 including a calibration report is available on demand.</p>

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Delivery includes



Hardness tester with carrying case, Certificate of Compliance 2.1 according to EN 10204, operating instructions.

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