

Performing the measurement

Hold the durometer vertically over the surface to be tested. Press the durometer shock-free on the sample to be measured until the supporting surface completely touches the sample. Now read the measurement on the gauge.

If the drag pointer should be used, it has to be set before the measurement with the knurled screw on the glass in an anti-clockwise direction to a value lower than the expected Shore hardness value. The maximum value can then be read when the durometer has been taken from the sample .

Materials

Shore A: Soft rubber, rubber and elastomer
neoprene, flexible polyacrylate,
polyurethane, silicone

Shore D: Hard rubber and stiff thermoplastics,
Perspex

Testing regulations

The durometer corresponds with DIN 53505, DIN EN ISO 868 and ASTM D 2240

Recommended scale range

(VDI/VDE 2616 sheet 2 of the German Industrial Union)

Shore A : $10 \leq \text{Shore A} \leq 80$

Shore D : $30 \leq \text{Shore D} \leq 90$

Materials with a Shore A hardness > 80 should be

checked expediently according to Shore D and materials with a Shore D hardness < 30 are to be checked according to Shore A

Sample dimensions

Diameter larger than 30 mm, thickness larger than 6 mm. Thinner materials can be coated, but maximum 3 coats and no layer thinner than 2 mm.

Test strengths/penetration

Shore A : $0,55 \text{ N} \leq F \leq 8,065 \text{ N}$

Shore D : $0 \text{ N} \leq F \leq 44,5 \text{ N}$

$0 \text{ mm} \leq h \leq 2,5 \text{ mm}$ for A & D

The overall force on the durometer may not be too strong in order to avoid falsification of the hardness value by pressing the supporting surface into the test specimen .

Recommended accessories

The stand not only simplifies handling; it also ensures that the durometer is always vertical and positioned with the correct force. This can reduce the distribution of the measurement values under some circumstances.

Maintenance/checks

Annually by the manufacturer



Shore Durometer A and D

Operating information



Bienroder Weg 53
D-38108 Braunschweig
GERMANY

Tel.: +49 531 215 47 -0 / Fax: -20
www.baq.de

