

Model no. H3020

SHORE HARDNESS TESTER



According to

ISO 868

ISO 7619

ASTM D 2240

Hardness according to the Shore scale indicates the resistance of different kinds of materials to penetration at a defined spring force. The hardness scale ranges from 0 to 100, where 0 Shore represents the smallest degree of hardness (2.5 mm penetration depth) and 100 Shore the largest (0 mm penetration depth). Shore A is specified for soft elastomers following measurement with a needle (blunt cone with an opening angle of 35°) at 12.5 N, whereas Shore D is for rubber elastomers following measurement with a needle (conical tip with a 30° angle) at 50 N. The test unit consists of a basic tester and a test stand with mounting arm. The stand allows the hardness tester to be fixed in place quickly and easily. The tester has precise instruments and high reading accuracy.

SIMPLE AND SAFE OPERATION

- > Quick and simple fixation of the hardness tester in the test stand using mounting fixture

RELIABLE TEST RESULTS

- > Accuracy checked using reference plates

LASTING EFFICIENCY

- > High-quality unit components guarantee high reliability, a long service life and low maintenance costs

STATE-OF-THE-ART TECHNOLOGY

- > 300 measurements saved on integrated measurement memory

SOFTWARE IS AVAILABLE AS AN OPTION

- > Measurement data acquisition
- > Display of the current hardness value and all hardness values from a test series
- > Graphical display of the test series as a diagram or histogram
- > Freely definable test report
- > Saving of test series on hard drive/other media
- > Further processing of test series in other programs

| VERSION SHORE HARDNESS TESTER | | H3020-0002 | H3020-0012 |
|--------------------------------------|----|-------------------|--------------------------|
| Shore A | | ✓ | ✓ |
| Shore D | | - | ✓ |
| Hardness scale | | 0 - 100 | 0 - 100 |
| Scaling | | 1 Shore | 1 Shore |
| Pressure plate diameter | mm | 18 | 18 |
| 35° blunt cone penetrating body | | ✓ | ✓ |
| 30° cone penetrating body | | - | ✓ |
| Spring force | N | 8.065 | 44.5 (Shore D) |
| Pressure force | kg | 1 | 5 |
| Penetration depth | mm | 2.5 | 2.5 |
| Software | | | + |
| DKD calibration certificate | | | ✓ |
| CE-Conformity | | | ✓ |
| Permissible ambient temperature | °C | | +5 to +30 |
| Permissible relative humidity | % | | max. 70 % non-condensing |
| Width (without test stand) | mm | | 70 |
| Depth (without test stand) | mm | | 50 |
| Height (without test stand) | mm | | 160 |

✓ included

+ available/optional

○ eligible

- not available

* available upon request