



Asker Type C Durometers

for SRIS 0101 & JIS K7312 Specifications



Made In U.S.A.



Model 603 Classic Style Analog Asker C Durometer has an easy to read 0 to 100 point dial and 1/2" x 2" base.

Meets both JIS K7312 and SRIS 0101.



Model 611 Pencil Style Digital Asker C Durometer features easy to read LCD dial and 1/2" diam. base.

Meets SRIS 0101.



Model 604 Ergo Style Analog Asker C Durometer with 0 to 100 point dial and 1" x 1" base.

Meets SRIS 0101.



Model 601 Pencil Style Analog Asker C Durometer with 0 to 100 point dial and 1/2" diam. base.

Meets SRIS 0101.

PTC®'s Model ASKER C Durometers measure the indentation hardness of soft rubber, sponge and plastic foam, elastomers, and similar materials.

Each durometer comes complete with a test block and carrying case.

- **Models to Meet or Exceed SRIS 0101 or JIS K7312 Specifications for Asker Type C**
- **Accuracy of ± 8 gf (± 1 point)**
- **NIST Certification Available**
- **Easy to Read 0 to 100 Point Dial**
- **Max Hold Feature Standard**
- **Accessory Test Stands Available-- Deadweight or Spring Loaded**

SPECIFICATIONS

1. Range (Asker Type C) 0 to 100 points.
2. Accuracy ± 8 gf (± 1 point).
3. Dimensions:
 - Height
 - (601 & 611) 5.3 in. (13.5 cm).
 - (603 & 604) 4 in. (10.2 cm).
 - Width (all) 2-1/4 in. (5.7 cm).
 - Depth
 - (601 & 611) 1-3/8" (3.5 cm).
 - (603 & 604) 1-3/4 in. (4.4 cm).
5. Weight
 - (depends on model) 6.5 to 8 oz. (200 g).
6. Shipping weight 3 lb. (1.4 kg).

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OPERATING INSTRUCTIONS

The surface of the sample to be tested shall be clean and smooth. The sample should be at least 1/4" (6 mm) in thickness unless it is known that identical results are obtained with a thinner specimen. Thinner materials can be stacked to obtain the minimum thickness (DO NOT GLUE). Such results may not agree with those of a solid specimen. The sample should be large enough so that the indenter is at least 1/2" (12 mm) from any edge unless it is known that identical results are obtained when measurements are made closer to the edge. The surface of the specimen shall be flat over a sufficient area to permit the presser foot to contact the specimen over an area having a radius of at least 1/4" from the indenter point. The temperature of the specimen should be 73.4°F ±3.5°F (23°C ±2°C). The specimen should be allowed to rest at this temperature for at least 1 hour prior to testing, as the properties of most materials change with temperature.

Place the specimen on a hard, horizontal surface. Set the ancillary hand of the durometer below 5 points on the dial. Hold the durometer vertically with the point of the indenter at least 1/2" from any edge. Apply the presser foot to the specimen as rapidly as possible, without shock, keeping the foot parallel to the surface of the specimen. Apply just sufficient force to obtain firm contact between the presser foot and the specimen. Hold for 1 or 2 seconds, the maximum reading can be obtained from the ancillary hand. If other than a maximum reading is needed, hold the durometer in place without motion and obtain the reading after the required time interval. Make 5 tests at least 1/4" apart and use the average value.

Note: For instructions on Model 611, see Operating Manual included with instrument.



PTC Metrology® is accredited by A2LA for durometer calibration to ISO/IEC 17025 & ANSI/NCSL Z540-1. NIST traceable certification is available for all durometer types covered by current ASTM D2240, ASTM F1957, ISO 868, ISO 7619, and DIN 53505 Standards.

The Calibration Report will include both "as received" and "as left" data. Complete durometer calibration includes: indenter geometry and extension, indicator linearity, and force curve.

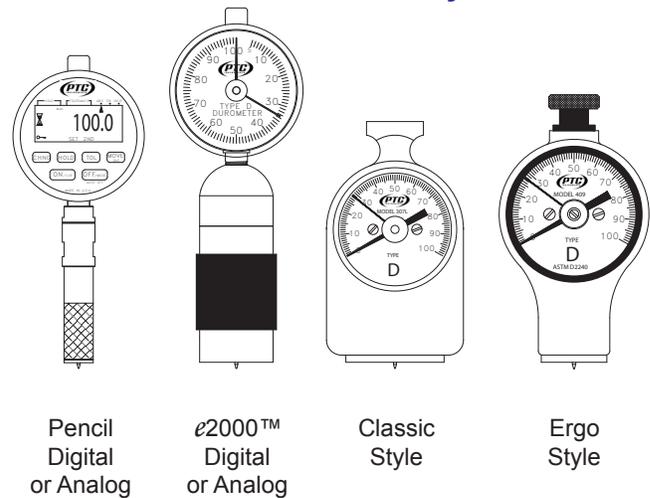
Other durometer types, custom models, and durometers of any manufacture can also be certified by PTC Metrology®.

CALIBRATION CHECK

For a complete calibration check of mainspring, and visual and mechanical check of indenter, the instrument should be returned to PTC® (see Guarantee & Calibration Service). PTC® recommends the unit be returned at least every 12 months for this check. For a quick field check, follow the guideline below. Under no circumstance should a test block be used as a standard to calibrate a durometer.

1. The pointer should read zero when no force is applied to the indenter of the durometer.
2. Hand hold the durometer and insert the indenter into the hole of the calibrated test block. Apply enough force to make firm contact between the top surface of the test block and the presser foot. The dial reading should agree with the value stamped on the check block (±1). Several tests should be made and the results averaged.
3. The indenter must protrude 0.098 to 0.100 inches below the presser foot.
4. When the indenter is fully displaced, the durometer should read 100 points. Use care as to not damage the tip of the indenter.

PTC® Durometer Styles



LIMITED LIABILITY WARRANTY

PTC® products are covered by a limited liability warranty from defects in material and workmanship for one year from date of purchase. This warranty does not apply if, in the judgement of PTC®, the product fails due to damage from shipment, handling, storage, accident, abuse or misuse, or if it has been used or maintained in a manner not conforming to product's instructions, has been modified in any way, or has a defaced or removed serial number. Repair by anyone other than PTC® or an approved agent voids this warranty. The maximum liability of PTC® is the product purchase price.



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