



Durometer Hardness SOP-LANE-2

STANDARD OPERATING PROCEDURES

Durometer Hardness

SOP-LANE-2

SOP CODE



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PURPOSE

To determine the hardness of lane panels.

MATERIALS

1. Lane panel or overlay sample to be tested, measuring 6" x 36".
2. Bareiss Type D Handheld Durometer
3. ETEKCITY Laser Grip 800 Infrared Thermometer
4. Towel
5. Isopropyl alcohol

EQUIPMENT / SET UP PROCEDURE

1. Samples must be tested when they are within the temperature range of 70-77 deg F. The room thermostat should be set so the sample surface temperature is between 70-74 degrees. The surface should be removed from packaging to allow the air to circulate and acclimate the sample to the environment for at least 24 hours.

TESTING PROCEDURE

Data Collection

1. Place the sample to be measured on a flat surface.
2. Using the infrared thermometer, check three different locations on the sample surface to assure temperature is within the required range and record in the test sheet.
 - a. If surface temperatures are not within the required range, allow samples to acclimate, then restart the test.
3. Clean the sample surface with isopropyl alcohol and allow it to dry completely.
4. Push the "ON/OFF/ZERO" button on the durometer.
5. Push "MODE" and make sure the number shown is "2". This number indicates the number of seconds you need to hold the durometer down per reading.
 - a. If time is not set to 2, adjust by holding the MODE button until it reads "2".
6. Return to the measurement reading screen by pushing the "ON/OFF/ZERO" button.
7. Using both hands, grip the durometer by the ridged sleeve, place indenter tip gently on sample surface and push sleeve down firmly until the sleeve is flush to the sample surface, and hold until the durometer beeps.
8. Lift straight up to remove durometer from the lane surface sample and record the number on the readout in the lane panel test sheet.
9. Repeat steps 7-8 on different locations across the lane surface sample until you have collected 10 readings.
10. The lane panel test sheet will average 10 readings which will be the hardness value for that sample.

CALIBRATION

The Bareiss durometer is to be sent for professional calibration annually.