

LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT VERIFICATION PROCEDURE

DUCTILITY MACHINE (AASHTO T51 OR ASTM D113)

Equipment

1. Ruler, readable to 1 mm.
2. Timer, readable to 0.1 second.
3. Thermometer, calibrated and readable to 0.5 °C. (1 °F.).

Procedures

1. Assemble a mold. Measure the thickness and the width at the minimum cross-section to 1 mm.
2. Fill the ductility machine with water. Attach the clips of a mold to the pins or hooks of the testing machine. Measure, to the nearest 1 mm, the distance from the top of the mold to the water level. Measure, to the nearest 1 mm, the distance from the bottom of the testing machine to the bottom of the mold.
3. Start the ductility machine. Measure and record the distance through which the clips move after 1 minute.
4. Measure and record the depth of the water in the bath (if used).
5. Observe and record the temperature of the water in the bath.