

## Colorado Procedure – Laboratory 2203-13

### *Standard Method of Test for*

### **Pliability and Thickness of Prefabricated Reinforced Membrane**

#### **1. SCOPE**

- 1.1 This procedure describes the method of test for pliability and thickness of prefabricated reinforced membrane material to be used as a bridge deck waterproofing membrane.

#### **2. APPARATUS**

- 2.1 Cold chamber, capable of maintaining  $10^{\circ}\text{F} \pm 2^{\circ}$ .
- 2.2 Mandrel, 1 inch diameter.
- 2.3 Micrometer, capable of measuring to 0.001 inches.

#### **3. PREPARATION OF SPECIMENS**

- 3.1 Cut three test specimens, each 1" x 4" from sample representing material to be used. Test specimens shall not be cut from ends or sides, or adjacent locations in the sheet.

#### **4. TEST PROCEDURE**

- 4.1 Measure and record the thickness of test strips using micrometer. Measure two locations on each strip approximately 1/2 inch from the edge and 1 inch from each end.
- 4.2 Place the test strips in the cold chamber at  $10^{\circ}\text{F}$  for a minimum of 2 hours.
- 4.3 While in the cold chamber and using gloves, bend the specimens  $180^{\circ}$  over the 1 inch mandrel at a steady rate. Bending time should be approximately 5 seconds. Inspect for cracks.

#### **5. REPORTING**

- 5.1 There is no designated CDOT Form used for recording / reporting information for this CP-L.
- 5.2 Average the six thickness measurements and report as thickness in mils (0.001 inches).
- 5.3 Report as a failure if any cracks are evident.

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