

Kentucky Method 64-416-08
Revised 02/21/08
Supersedes KM 64-416-02
Dated 12/13/01

PLASTIC SET TEST FOR ASPHALT MASTIC

1. SCOPE: This test method measures the toughness, shrinkage, adhesion, and cracking of asphalt mastic after curing.
2. APPARATUS -
 - 2.1. Provide a tinned panel, approximately 5 by 3 by 0.013 inches.
 - 2.2. Provide a spatula, capable of spreading the sample into a “smear” which is 1/16 to 1/8 of an inch thick.
3. SAMPLE: Ensure that the size of the test sample is 3.0 ± 0.5 g.
4. PROCEDURE -
 - 4.1. Apply the thin layer of the asphalt mastic, which is 1/16 to 1/8 of an inch thick and weighs approximately 3 g, to the tinned panel.
 - 4.2. Allow the specimen to cure at room temperature for 24 hours.
 - 4.3. Visually examine the specimen for the following:
 - 4.3.1. Toughness;
 - 4.3.2. Shrinkage;
 - 4.3.3. Adhesion to the tinned panel; and
 - 4.3.4. Cracking.

5. REPORT: Ensure that the asphalt mastic sets to a tough, plastic coating and does not shrink, crack, or loosen from the surface after the 24-hour cure period.

APPROVED

DIRECTOR
DIVISION OF MATERIALS

DATE

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