

Performance Exam Checklist

Test for High and Low Temperature Recovery of Elastomeric Joint Seals for Concrete Pavements ASTM D 2628 AASHTO M220

Participant Name _____ Exam Date _____

Procedure Element **Yes No**

1. Sample is cut into 5-inch pieces?
2. Specimens for high and low temperature recovery tests (2 each) lightly dusted with talc?
3. Specimens deflected between parallel plates to 50% of the nominal width using a compression device clamp assembly?

High Temperature Recovery

1. Clamp assembly containing the compressed specimens placed in an oven capable of maintaining $212 \pm 2^\circ\text{F}$ ($100 \pm 1^\circ\text{C}$) and kept there for 70 hours?
2. Clamp assembly removed from the oven after 70 hours?
3. Unclamped the assembly and carefully removed the specimens?
4. Specimens allowed to rest on a wooden surface at room temperature for 1 hour?
5. Recovered width of the specimens measured in the center of the 5-inch length at the top of the longitudinal edge using a dial caliper or other measuring device?
6. Data entered into the computer data base where % Recovery is automatically calculated?

Low Temperature Recovery

1. Clamp assembly containing the compressed specimens placed in a refrigerated chamber capable of maintaining $-20 \pm 2^\circ\text{F}$ ($-29 \pm 1^\circ\text{C}$) and kept there for 22 hours?
2. Clamp assembly removed from the chamber after 22 hours?
3. Unclamped the assembly and carefully removed the specimens?
4. Specimens transferred to a wooden surface in the chamber and allowed to recover for 1 hour?
5. Specimens removed from the chamber and measured the recovered width in the center of the 5-inch length at the top of the longitudinal edge using a dial caliper or other measuring device?
6. Data entered into the computer data base where % Recovery is automatically calculated?

$$\text{Recovery, \%} = \text{recovered width} \times 100/\text{nominal width}$$

First Attempt: Pass Fail Second Attempt: Pass Fail

Signature of Examiner _____

Comments: