

TEST METHOD T742

PLASTIC LIMIT OF MODIFIED BINDERS

REVISION SUMMARY

Date	Clause Number	Description of Revision	Authorised By Gen Mgr Pavements
Jan 2000		Reformatted and Revision Summary Added. Safety notes added. 4(a) warning removed.	D.Dash
Jun 2003		Clauses 2(b) 3(a) Revised. Clause 4 Added- P.Harslett	D.Dash

TEST METHOD T742

PLASTIC LIMIT OF MODIFIED BINDERS

1. Scope

This method identifies binders which do not have a viscous response at 70°C and long loading times when confined to thicknesses in the range 0.1 to 1 mm. It is applicable to all modified binders.

2. Safety Notes

- (a) A poster describing the action to be taken in the event of bitumen burns must be displayed in the laboratory in the vicinity of the bitumen pouring area(s).
- (b) Use either tongs or heat resisting gloves when handling hot bitumen. **Arms should be covered with long sleeved clothing/lab coat. If using tongs tightly fitting gloves should be worn.** Loosen or puncture lids before heating containers. Examine cold samples for signs of water. Remove all visible water. Wear spectacles when heating samples suspected of containing water. Cleaning solvents such as toluene may be toxic, handle such solvents in a fume cupboard, consult MSDS.

Warning: Hot bitumen and PMBs can cause burns.

3. Method

- (a) The procedure of testing and reporting shall be the same as Austroads Modified Binder Test MBT 32 *Compressive limit of polymer modified binders*, but with the following refinements:
 - At (h) a 2 kg load is to remain on the sample while it cools to room temperature for a further 30 minutes.
 - At 7, report the plastic limit to the nearest 0.02 mm.

4. Precision

The repeatability of any result p mm is $\pm (0.05 + 0.05 p)$ mm.
The reproducibility of this method has not yet been determined.