

Cheap and Easy Viscosity Comparison

Below is a scan of the pipette and syringe needle that I use for my viscosity comparisons. The scanner diagonal was not large enough for the syringe needle to be on the pipette, but it just sticks on and stays there from friction. The ruler is there just to give some scale.

I time the drop in the fluid level from 0 to 5 and then from 5 to 9. The tape is at those spots because it can be hard to see and keep track of the clock and numbers at the same time. (For the Eboni black ink I also need a special lighting arrangement to be able to see the ink level at all.)

For weight/relative density, weigh 10 cc syringe with needle & ink-plunger back at 10 cc mark (syringe = 7.2).

The typical range of my relative time measures are as follows:

	0-5	0-9 (Pipette calibrations)
High end: (Will not run right in a 1280)	50 sec.	2 min.
Typical:	33	1:15
4 parts H ₂ O to 3 parts Glycerin 29		1:10
Low end:	27	1:04
H ₂ O	14	30 sec.

