Viscosity Determination of Sound-Track Developer
ECP-2-99

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INTRODUCTION
The viscosity of the sound-track developer is critical to proper sound-track-developer coating and bead width. The following procedure will help ensure the developer is mixed correctly and consistently from batch to batch.

Check the viscosity by measuring the discharge time from a standard volumetric or transfer pipet. Always measure the solution at the same temperature, preferably near the actual application temperature. Use the same pipet for all measurements, or select and set aside several pipets having the same discharge time.

Establish an acceptable discharge range (control limits) using solutions that applicate satisfactorily.

SPECIAL APPARATUS
• 10-mL Volumetric Pipet, Class A, Kimax
• Stopwatch or equivalent timer

PROCEDURE
1. Bring the developer solution to measuring temperature.
2. Season the pipet with solution.
3. Draw the solution into the pipet above the calibration mark.
4. Time the discharge from the time the solution passes the mark, until the stream first breaks.
5. Compare the discharge time to your control limits to accept or reject the developer.