

## Snap Back Testing For Pool Liner Films

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When a pool liner film is calendered, printed or just re-wound, it is often stretched. This stretch can then be temporarily locked into the film when it is wound into a roll. When the film is then removed from the roll and allowed to relax, it wants to return to its normal length. This phenomenon is called snap back. The film can take from 24 hours to 72 hours to completely relax. There are several factors that control the rate at which it relaxes but temperature is one of the major factors. Therefore, film being measured for snapback in a colder temperature may take much longer to relax than in a warmer temperature.

This procedure provides a standard method for determining PVC rolled film snapback. The specification for snapback on the calendered film at the time of production after 1 hour (procedure shown below) is \_%. The specification after 24 hours is 1%.

Apparatus required is a large, flat, smooth surface and a steel tape measure graduated to the nearest 1/16".

1. Remove two (2) outer wraps from the roll and discard.
2. Cut a twelve (12) foot sample from the roll to be measured.
3. Fan fold the cut sample and immediately place it on the smooth flat table so that it can be laid flat.
4. Place two (2) marks 100" apart on one edge of the film.
5. Steps 1 through 4 should be completed within three minutes elapsed time.
6. After 1 hour, measure the distance between the two marks on the sheet.
7. After 24 hours, measure the distance between the two marks on the sheet.
8. Calculate the percent (%) snapback at 1 hour =  $100 - (\text{distance in step 6})$ .
9. Calculate the percent (%) snapback at 24 hours =  $100 - (\text{distance in step 7})$ .

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