SWP™

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Synthetic Wooden Pulp Department
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Effect of Dimensional Stability of SWP™ -Based Synthetic Fiber Paper

SWP™-pulp mixed paper has excellent dimensional stability. Expected applications are as printing paper, wallpaper, etc.
Dimensional stability of SWP™-pulp mixed paper is introduced in this document.

1. PAPERMAKING PROCEDURE and EVALUATION METHOD

(1) Papermaking procedure of SWP™-pulp mixed paper

SWP Grade	: E620 (CSF : 340ml)
	E400 (CSF : 580ml)
	E790 (CSF : 680ml)
Wood Pulp	: NBKP (CSF : 520ml)
Basis Weight	: 60g/m^2
Drying Condition	: 110°C×2min. (Rotary Dryer)

(2) Evaluation method of paper properties

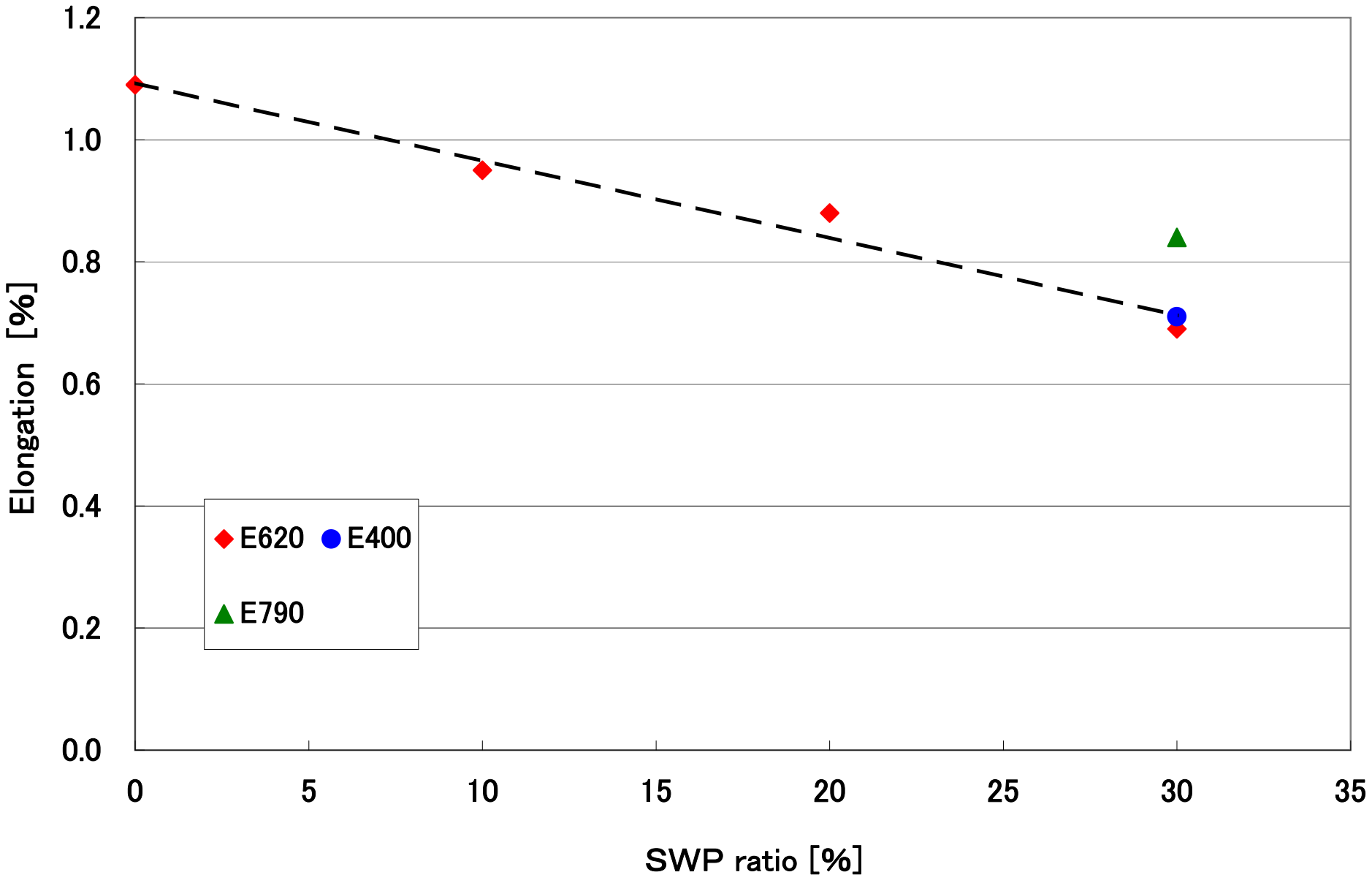
Elongation after immersion in water is used for evaluation of dimensional stability.

Elongation after immersion in water:

Size change rate (Elongation) is calculated measuring the signpost line length after the sample with the marked line of 200mm length is soaked in water for 10 minutes.

2. ELONGATION AFTER IMMERSION IN WATER of SWP™- PULPMIXED PAPER (Refer to Graph 1)

- Elongation after immersion in water improves by using SWP™ in paper. Especially low CSF type E620 shows excellent dimensional stability.
- Elongation after immersion in water improves by increase of SWP ratio in mixed paper. For example, when SWP™ ratio is 30% in the paper elongation improves about 40%.



Graph 1 : Elongation After Immersion in Water