

슬라이버의 압축특성에 관한 연구
- 슬라이버 선 밀도 변동 개수의 측정 -

이 재 곤, 박 일 규, 김 종 섭, 강 태 진

서울대 공대 섬유공학과

Abstract

In order to develop the on-line measurement system of sliver linear density-variation, the authors made, by try-and-error method, a pneumatic micrometer device which is consisted of specially designed trumpet for passing the sliver-specimen and a back pressure tank with strain transducer.

Assuming that the sliver linear density-variation is proportional to the back pressure-variation in the pressure tank, several kinds of sliver were passed through the trumpet and sensed the back pressure-variation in the tank. And the back pressure-variation data (experimental data) were recorded by X-Y plotter.

The experimental data were compared with the data from Uster Evenness Tester for the same sliver-specimen. It was found that, by this comparison, there were slight deviations between the two, and found that these deviations are caused by the structure of constituent fibres in sliver.