Pyroelectricity of Drawn Poly(vinylidenefluoride) Films

조 재 환, 김 상 용*

전남대학교 공과대학 섬유공학과

*서울대학교 공과대학 섬유공학과

Abstract

The pyroelectricity of poly(vinylidenefluoride) films prepared by varying the draw ratio and the poling field was investigated.

As the draw ratio and the electric field on poling of the drawn samples increased, so did the pyroelectric coefficient. But the effect of electric field on the pyroelectricity was greater than that of draw ratio.

The pyroelectric and piezoelectric activities could be explained by the polarization using the thermally stimulated current. The relation between pyroelectric coefficient and piezoelectric stress constant showed a good linearity.