

Poly(vinylidene fluoride) with Dicumyleperoxide

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For elevation of the piezoelectricity of the polymer, We need to control the superstructure of macromolecular assembly. piezoelectric polymer, Poly(vinylidene fluoride) films, were prepared by introducing dicumyl peroxide into the PVDF dilute solution.

The influence of crosslinking agent on the structure and properties of poly(vinylidene fluoride) films were studied.

From these results, With increasing the dicumyl peroxide(DCP) content, the maximum draw ratio increase for SC(solution casting) film.

By introducing DCP into the SC film, the film could have very high phase I content.

X-ray and IR data showed that the superstructure control of PVDF films depends on the influence of DCP.