

in (110) and (200) reflections and decrease in (100) and (120) reflections are consistent with partial transformation of α to α_p form. The minor decrease in (020) and (130) reflections may arise from the preferential orientation of the a axis, which is the axis of molecular dipoles in the unit cell of α_p form, along the applied field.

This new α_p form should arise from the 180° rotation and $c_0/2$ translation along the c axis of every second molecular chain in the unit cell of α form such that the antiparallel dipolar alignment in the unit cell is changed to the parallel alignment due to the applied electric field (see Figure 2). This transformation is found to result in surprisingly little changes in major interatomic distances within the unit cell. In fact, the closest interatomic distances between fluorine atoms of adjacent chains change from 3.36 to 3.28 Å. Hence, the α_p form, once formed, is expected to be relatively stable.

This new α_p form of PVF₂ proposed above is highly polar, the dipole moment being ca. 1.3 D per monomer unit in contrast to the nonpolar character of the original α form. The fact that the nonpolar α form of PVF₂ can be transformed into the highly polar α_p form under high electric field has significant implications on the current investigations of the mechanisms of piezo- and pyroelectric behavior of polymers and PVF₂, in particular.⁷ The piezo- and pyroelectric activities of the α_p form of PVF₂ and their implications will be discussed in a later publication.⁸

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References and Notes

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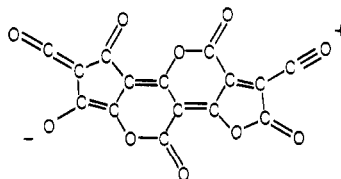
CORRECTIONS

A. W. Snow, H. Haubenstein, and N.-L. Yang: Poly(carbon suboxide). Characterization, Polymerization, and Radical Structure. Volume 11, Number 1, January-February 1978, page 77.

On page 77 the equation in the right column should be

$$\ln [\text{slope}] = n \ln [M] + \ln k$$

On page 84 in the second paragraph from the bottom, left column: the "charged resonance structure" referred to (Figure 13) has been omitted from the figure. The structure is



L. J. Mathias, W. D. Fuller, D. Nissen, and M. Goodman: Polydepsipeptides. 6. Synthesis of Sequential Polymers Containing Varying Ratios of L-Alanine and L-Lactic Acid. Volume 11, Number 3, May-June 1978, page 534.

The titles for Schemes I and II should read, respectively: "Synthetic Outline for Poly[(L-Ala)₃-L-Lac] and the Intermediate for Poly[(L-Ala)₂-L-Lac]" and "Synthetic Outline for Poly[(L-Ala)₃-(L-Lac)₂] and the Intermediate for Poly[(L-Ala)₂-(L-Lac)₂]".

All four structures a-d in Figure 1 should contain a -(C=O)- unit just before the right-hand parentheses.