

8. Studies on Copolymers of Vinyl Chloride and Vinyl Acetate with an X-Ray Counter

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Copolymers of vinylchloride and vinyl acetate have been prepared and fractionated in this laboratory and several fractions of different compositions have been investigated with an X-ray counter spectrometer mentioned in the above report.

It has been found that the change of spacings takes place with the change of copolymer composition. The results are given below.

Content of V. C. in polymer. mol %	Specing ($\text{\AA}^\circ$)	
	Inner halo	Outer halo
100	5.21	3.56
96.7	5.21	3.56
61.9	5.37	3.70
41.3	5.53	3.86
22.4	5.53	3.86
0	6.80	3.95

9. On the Bulk Volume of Some Clay-Air-Water System

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The relation between the molding pressure and bulk volume of the clay-air-water system in some clay bodies was studied.

The typical pictures of the bulk volume at the different molding pressures, i.e., 8 and 80 kg./cm². are given in the following figure.

