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## The Static and Dynamic Properties of Poly (n-vinyl-pyrrolidone) in Alcohol Solutions

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### Abstract

The interaction of poly(n-vinyl-pyrrolidone) (PVP) having  $\overline{M}_w = 8.8 \times 10^4$  with alcohols was investigated by means of laser light scattering. A comparison of the results with those of viscosimetry was made. It was found that addition of denaturing agent guanidine chloride (GC) into the studied systems leads to a higher apparent molecular weight, a lower hydrodynamic radius and  $[\eta]$  owing to the formation of complex PVP-GC, and causes marked changes in second Virial coefficient, second diffusion virial coefficient and Huggins constant.

**Keywords**    laser light scattering, poly(n-vinyl-pyrrolidone), guanidine chloride, hydrodynamic radius

· 简讯 ·

### 水溶性涤纶片基固体感光树脂

水溶性涤纶片基固体感光树脂印刷版, 是国家经委印刷器材装备‘六五~七五’攻关项目, 是我国急需解决的印刷新版材。我校高分子研究所在珠江印刷厂建立了中试基地, 采用80年代先进技术和国产原材料, 解决了高粘度的感光树脂液配制、消泡、树脂层与片基的粘结及版材平整光洁的难关。制得的版材其曝光速度、冲洗显影性能和分辨率、耐印率等主要性能指标已接近日本同类产品NAPP版的水平。使用单位反映良好。经广州市标准计量局检验, 完全符合广州企业Q/QB293—87标准, 并通过了中试投产技术签定。