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**Study of poly[N-isopropylacrylamide-co-Glycidyl Methacrylate] Particle Size Under the Effects of Varying Phase Ratio, Initiator Dose and Temperature** NICOLE FOX, JUN ZHOU, ZHIBING HU, University of North Texas — This is a study of the particle size of poly[N-isopropylacrylamide-co-glycidyl methacrylate] (p[NIPA-co-GMA]) nanoparticles. The function group of GMA allows it to bond easily with proteins, making it very important in biomedical applications. The effects of varying phase ratios and varying initiator doses on particle size were studied, as well as the temperature dependence of particle size using dynamic light scattering techniques. The kinematic properties of particles at set times after beginning a reaction were studied.

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