

Phase Behavior of the Mixture of Glycidyl Methacrylate Terminated PDMS and Methyl Methacrylate in Carbon Dioxide

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In this presentation, we describe the phase behavior of binary and ternary mixtures composed of glycidyl methacrylate-PDMS, methyl methacrylate and carbon dioxide. The bubble, dew, and cloud point of the mixtures are measured between 40 and 150 °C. The critical point loci of the mixture are demonstrated in pressure-temperature space. Also, the effect of the molecular weight of glycidyl methacrylate-PDMS on the solution behavior is presented.