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Surface Tension of Polystyrene Melts in Supercritical Carbon Dioxide

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Abstract

The surface tension and volume swelling of polystyrene melts in supercritical carbon dioxide were measured using the pendent drop method. The mass and solubility were measured by magnetic suspension balance. The obtained PVT data of PS/supercritical-carbon-dioxide mixtures were analyzed using Sanchez-Lacombe and Simha-Somcynsky equations of state. The agreement was reasonable amongst the approaches.