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Isothermal phase behaviors of poly(vinylidene fluoride) and a vinylidene fluoride (VDF)-tetrafluoroethylene (TFE)-hexafluoropropylene (HFP) terpolymer in solutions of octanol and dimethyl formamide were studied. From the measured gelation-equilibrium composition and binodal miscibility envelop, Flory-Huggins interaction parameters were determined for each of the ternary system.