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Improved Compatibility between Polystyrene and Poly(vinylidene fluoride) by the Addition of Urea.

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The viscosity behavior of dilute urea solution of dimethylformamide (DMF) of Polystyrene-Poly(vinylidene fluoride) has been studied at 25 degree C. The results show that the polymer mixtures are incompatible in DMF solution in the absence of urea. The influence of urea addition on the degree of compatibility of the polymer mixture has been studied in terms of the compatibility parameters (α , β , γ , δ , ϵ , ζ , η , θ , ι , κ , λ , μ , ν , ξ , \omicron , π , ρ , σ , τ , υ , ϕ , χ , ψ , ω , α and β) respectively.