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RHEOLOGICAL BEHAVIOUR OF THE SYSTEM: 27% HYDROLYZED POLYACRYLAMIDE [AD37] - POLY (4-VINYLPYRIDINE) [P4VP]-SODIUM DODECYL SULFATE (SDS), IN AQUEOUS SOLUTION: INFLUENCE OF NEUTRALIZATION DEGREE

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The interaction between polyelectrolytes and ionic surfactants has attracted significant interest in recent years in different areas of research [1, 2]. This type of interaction has found widespread applications both in biological and technological fields [3, 4], and several methods were used to characterize their complex behaviours [5]. In the present work, neutralization degree effect α, on the viscosimetric behaviour of (AD37-P4VP) complex in aqueous solution and in the presence of sodium dodecyl sulphate (SDS) at T=27°C was studied. Physicochemical results show that neutralization degree has an important effect on reduced viscosities values of (AD37-P4VP-SDS) system that revel the electrostatic and hydrophobic interactions. Indeed, these values increase with α, and this influence is even greater when P4VP concentrations decrease.