

The graph shows the variation of the rate of polymerization ( $R_p$ ) with time ( $t$ ). The curve starts at a high value, decreases rapidly to a minimum, and then increases slowly to a plateau.

The infrared spectrum displays several key absorption bands. A broad peak is visible around 3400 cm⁻¹, likely due to the presence of hydroxyl groups. Strong, sharp peaks are observed in the 1600-1700 cm⁻¹ region, characteristic of carbonyl groups. The fingerprint region below 1500 cm⁻¹ shows numerous sharp, well-defined peaks, indicating a specific polymer structure.

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