

PAAm–Kappa Carrageenan Composites: Drying and Swelling with Various Kappa Carrageenan Contents

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The purpose of this study is to discuss the role of kappa-carrageenan (κ -car) in the drying and swelling of polyacrylamide (PAAm)– κ -car composite. The fluorescence intensity of pyranine increased and decreased as drying and swelling time were increased respectively for all samples. The desorption coefficient, D_d , decreased as κ -car contents were increased for a given temperature during drying. However, cooperative diffusion coefficient, D_s , increased as κ -car contents were increased during swelling at a given temperature.

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