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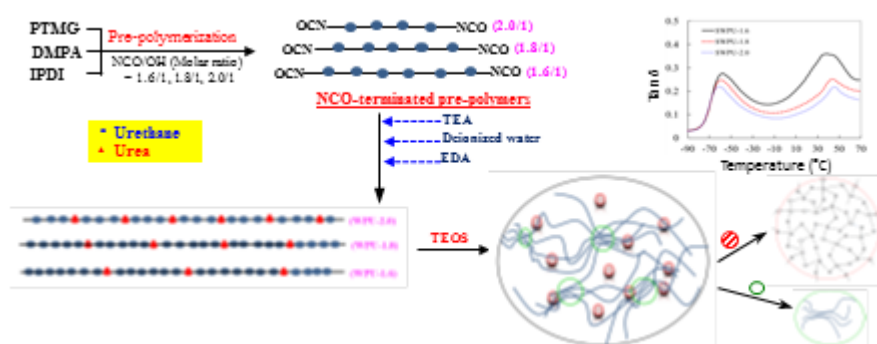
Effects of the NCO/OH Molar Ratio and the Silica Contained on the Properties of Waterborne Polyurethane Resins

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Graphical abstract



Highlights

- Waterborne polyurethane resins (WPUs) were synthesized with different NCO/OH molar ratios during pre-polymerization, and tetraethoxysilane was added to the WPUs to prepare WPU/silica hybrids.
- The viscosity, average particle size, average molecular weight and molecular structure of WPUs suspensions and the properties of WPUs films were influenced

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