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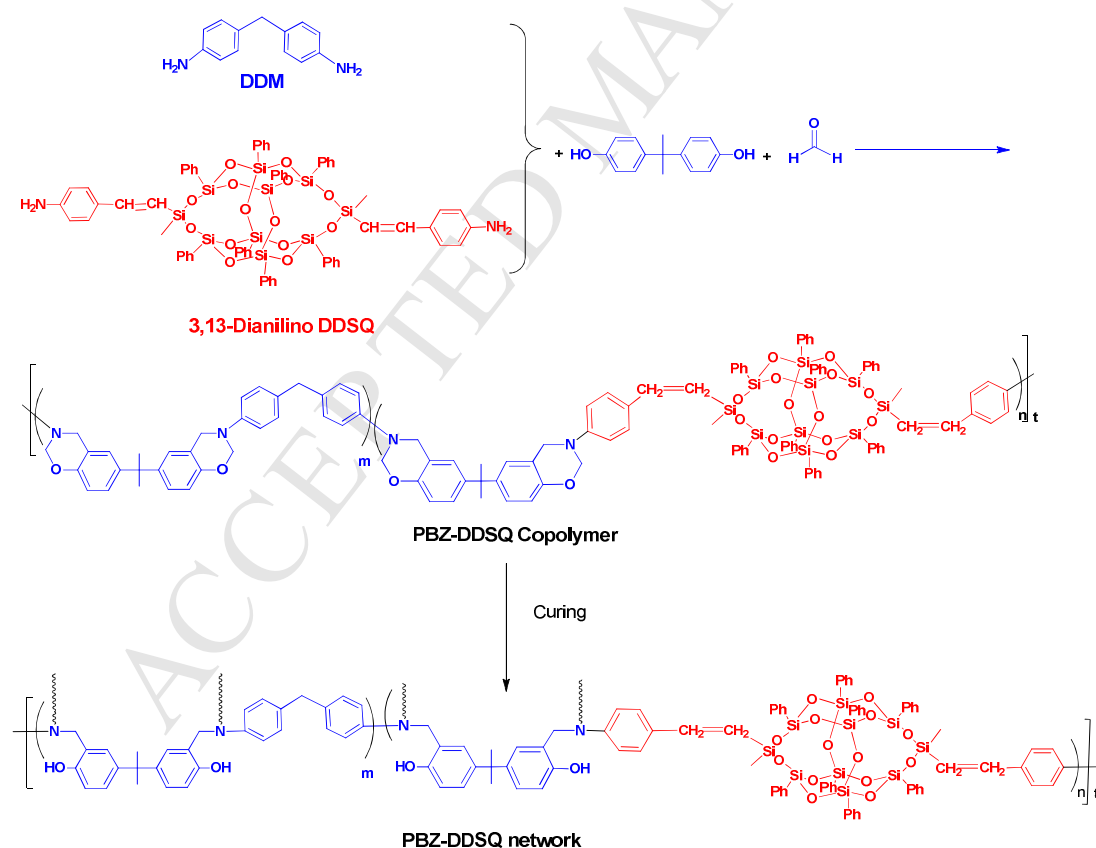
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GRAPHICAL ABSTRACT

Organic-inorganic Polybenzoxazine Copolymers with Double Decker Silsesquioxanes in the Main Chains: Synthesis and Thermally Activated Ring-opening Polymerization Behavior

Ning Liu, Lei Wang and Sixun Zheng*

In this contribution, we reported the synthesis of a series of organic-inorganic polybenzoxazine (PBZ) copolymers with double deck silsesquioxane (DDSQ) in the main chains *via* Mannich polycondensation. Their thermally activated ring-opening polymerization behavior and thermomechanical properties have been investigated in this work.



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