



## Synthesis Characterization and Miscibility of Polyvinyl Butyrals of Varying Vinyl Alcohol Contents

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Polyvinyl butyrals (PVB) of systematically varying vinyl alcohol content have been synthesized and characterized using wet chemistr y, IR, DSC, and TGA. The miscibility of PVB-PVB blends was studied by DSC as a function of vinyl alcohol content and vinyl alcohol content nt differences between the respective blend components. These data were use to construct an isothermal miscibility map of PVB and to calc ulate the intramolecular interaction parameter cVA,VB. The cVA,VB was a function of the absolute level of the vinyl alcohol (VA) and vinyl b utyral (VB) contents of the polymers. In addition, the thermal stability of polyvinyl butyral was found to be inversely related to the residual vinyl alcohol content of the polymer.

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