

PU 201: Polyurethane Raw Materials Testing, Specifications and Performance: “The Myth and the Magic”

Introduction

- The Urethane Chemical Reaction

Isocyanates (-NCO)

- Isocyanate Content as % NCO

Polyols

- Hydroxyl Content (-OH)

Other Isocyanate Methods

- Acidity as %HCl
- Viscosity
- Monomer & Isomers in polymeric MDI
- TDI Isomers
- Color Methods

Other Polyol Methods

- Acid Number
- Basicity (Alkalinity)
- Basicity as % Nitrogen
- Water
- Blended and Formulated Polyol Methods

Relationship between Testing and Specifications

Applications or Performance Testing

Conclusions and Open Discussion