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4. Chemorheological Techniques for Reactive Polymers  
5. Chemorheology ...

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## **Chemistry and structure of reactive polymers (Chapter 1**

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## **1 Chemistry and structure of reactive polymers**

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On the other hand, for linear polymers, the system viscosity  $\eta$  is related to the molecular weight  $M_w$ :  $\eta = k m M_w^a$  where the power exponent  $a \sim 1$  when  $M_w$  is below a critical molecular weight for chain entanglement,  $M_c$  and  $a \sim 3.4$  for  $M_w > M_c$ . For long chain branched polymers the power exponent  $a$  can be approximated with value ...

### **Chemorheology of thermoplastic polyurethane and ...**

Chemorheology is the study of the deformation properties of reactive polymer systems. The chemorheology of thermoset polymers (a subset of reactive polymers) is often difficult to characterise as there are complex effects of temperature on the material.

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12. Chemorheology of Reacting Systems (20 pages, skipped) 13. Rheology of Thermotropic Liquid Crystal Polymers (15 pages, skipped) 14. Role of Rheology in Extrusion (48pages, partially covered and supplemented from Birley, Haworth and Batchelor, Physics of Plastics: Processing, Properties and Materials Engineering (1992) and Tadmor and Klein ...

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