



# Polyurethane Elastomers

**Clemens Wendtner**



## **Polyurethane Elastomers:**

Polyurethane Elastomers C. Hepburn,2012-12-06 The aim of this monograph has been to distil into a single volume in an easily read and assimilated format the essentials of this often complex technology such that it is usable by all technical and semi technical people who wish to become their own polyurethane and polyurethane elastomer expert *Polyurethane Elastomers* Cristina Prisacariu,2011-07-03 A comprehensive account of the physical mechanical behaviour of polyurethanes PU s elastomers films and blends of variable crystallinity Aspects covered include the elasticity and inelasticity of amorphous to crystalline PUs in relation to their sensitivity to chemical and physical structure A study is made of how aspects of the constitutive responses of PUs vary with composition the polyaddition procedure the hard segment soft segment and chain extender diols and diamines are varied systematically in a large number of systems of model and novel crosslinked andthermoplastic PUs Results will be related to microstructural changes on the basis of evidence from x ray scattering SAXS and WAXS and also dynamic mechanical analyses DMA differential scanning calorimetry DSC and IR dichroism Inelastic effects will be investigated also by including quantitative correlations between the magnitude of the Mullins effect and the fractional energy dissipation by hysteresis under cyclic straining giving common relations approached by all the materials studied A major structural feature explored is the relationship between the nature of the hard segment crystallising or not and that of the soft segments Crystallinity has been sometimes observed in the commercial PUs hard phase but this is usually limited to only a few percent for most hard segment structures when solidified from the melt One particular diisocyanate 4 4 dibenzyl diisocyanate DBDI that in the presence of suitable chain extenders diols or diamines gives rise to significant degrees of crystallinity i iii and this is included in the present work Understanding the reaction pathways involved in resolving the subtle morphological evolution at the nanometre level and capturing mathematically the complex large deformation nonlinear viscoelastic mechanical behaviour areassumed to bring new important insights in the world basic research in polyurethanes and towards applied industrial research in this area *Castable Polyurethane Elastomers* I.R. Clemitson,2008-05-13 Currently raw material suppliers are the sole providers of polyurethane processing information In most cases they give instruction only on how to mix products and do not always include an explanation of the accompanying logic as to why these recommendations are being made Castable Polyurethane Elastomers explains the production proces *Castable Polyurethane Elastomers* I.R. Clemitson,2015-05-13 This second edition of a bestseller is a practical guide to the production of castable polyurethane articles The book shows the progression from raw materials to prepolymer production including the chemistry and functionality of the processes It provides a comprehensive look at various problem solving and processing techniques examining the selection of different systems on both the micro and macro levels Reorganized for better flow this edition describes new processing methods expands coverage of health and safety aspects and brings all standards up to date **Polyurethane Elastomers** C. Hepburn,2011-09-01 The aim of this monograph has been to distil

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