



# **The Effect of Creep and Other Time Related Factors on Plastics and Elastomers, Second Edition (Plastics Design Library)**

*Laurence W. McKeen*

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The second edition of the classic data book, *The Effect of Creep and Other Time Related Factors on Plastics and Elastomers* (originally published in 1991), has been extensively revised with the addition of an abundance of new data, the removal of all out-dated information, and the complete rebuilding of the product and company listings.

This new edition also has been reorganized from a polymer chemistry point of view. Plastics of similar polymer types are grouped into chapters, each with an introduction that briefly explains the chemistry of the polymers used in the plastics. An extensive introductory chapter has also been added, which summarizes the chemistry of making polymers, the formulation of plastics, creep-testing, test methods, measurements, and charts, as well as theory and plastic selection.

Each chapter is generally organized by product and concludes with comparisons of brand or generic products. The appendices include a list of trade names, plastics sold under those names, and manufacturer. A list of conversion factors for stress measures is also included.

### ABOUT THE AUTHOR

Laurence W. McKeen earned a B.S. in Chemistry from Rensselaer Polytechnic Institute in 1973 and a Ph.D. in 1978 from the University of Wisconsin. He began his career with DuPont in 1978 as a mass spectroscopist, but moved into product development in the Teflon® Finishes group in 1980. Dr. McKeen has accumulated over 28 years of experience in product development and applications, working with customers in a wide range of industries, which has led to the creation of dozens of commercial products.

- More than 8 core chapters, which serve as a databank for evaluating the creep of plastics
- Over 600 uniform graphs for more than 45 generic families of plastics are explained
- Types of graphs include: (1) Isochronous Stress–Strain Curves at Various Times and Temperatures (2) Creep Strain or Creep Deformation versus Time at Various Stress Levels and Temperatures (3) Various Modulus Measures (Tensile, Compressive, Flexural) versus Time at Various Temperatures (4) Hoop Stress versus Time at Various Temperatures (5) Stress Cracking and Other Plastics Failure versus Time (6) Creep Rupture versus Time

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