

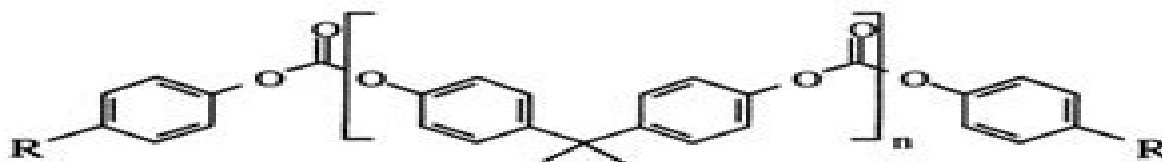
# Chapter 1

## Advances in Polycarbonates: An Overview

Daniel J. Brunelle

GE Global Research, 1 Research Circle, Niskayuna, NY 12309

Polycarbonates (1) are an interesting and commercially successful class of polymers. Known for useful properties such as high heat capability, optical clarity, and incredible toughness, polycarbonates continue to generate academic interest as well as finding new avenues for commercial utilization. Although aromatic polycarbonates were first reported in the literature just over 100 years ago, the number of patents and publications continues to climb each year. The field of polycarbonate research is very diverse, with novel work covering the entire range of theoretical calculations, synthesis, physical measurements and analysis, as well as new additives, blends and applications. This volume is based on a symposium, "Advances in Polycarbonates," held at the National ACS Meeting in New Orleans, in March, 2003. It collects chapters from a variety of authors describing recent work or reviews on an assortment of polycarbonate topics.



**BPA-Polycarbonate**

The polycarbonate from bisphenol A (BPA) was first prepared in 1953 by chemists Daniel Fox at GE (1) and Herman Schnell at Bayer, AG, (2) while working independently at their respective companies. The glassy material was immediately recognized to have unique characteristics, including clarity, a relatively high softening temperature (glass transition temperature,  $T_g \sim 155^\circ\text{C}$ ),

# Advances In Polycarbonates

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