

Abstract Submitted  
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**Relaxation Characteristics of 828 DGEBA Epoxy Over Long Time Periods** JASMINE HOO, RILEY C. REPROGLE, BRIAN WISLER, GABRIEL K. ARECHEDERRA, JOHN D. MCCOY, New Mexico Institute of Mining and Technology, JAMIE M. KROPKA, KEVIN N. LONG, Sandia National Laboratories — The mechanical relaxation response in uniaxial compression of a diglycidyl ether of bisphenol-A epoxy was studied over long time periods. The epoxy, 828DEA, was Epon 828 cured with diethanolamine (DEA). A sample was compressed at constant strain rate and held at various strain levels for days to allow the sample to relax. The sample was then compressed further and held once more. The relaxation curves were fit with a stretched exponential function. Sandia National Laboratories is a multi-program laboratory managed and operated by Sandia Corporation, a wholly owned subsidiary of Lockheed Martin Corporation, for the U.S. Department of Energy's National Nuclear Security Administration under contract DE-AC04-94AL85000.

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