Abstract

Ethylene-propylene-diene (EPDM) rubbers containing varying amounts of diene were cured with sulfur using either a moving die rheometer (MDR) or a rubber process analyzer (RPA). The effect of removing curatives and how the curing reaction changed was explored. Kinetic data was extracted from the rheology plots and reaction rate constants were determined by two separate ways: manually choosing points of interest or by a computer model.