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## Thermal and vulcanization kinetic behaviour of acrylonitrile butadiene rubber reinforced by carbon black

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**Abstract:** The present paper discusses the results of assessing thermal properties, vulcanization kinetic and swelling properties of acrylonitrile butadiene rubber (NBR) reinforced by carbon black (N-330) with mass ratio 0 to 100 phr. The kinetic parameters were determined from two high temperature rheokinetic curves (T1=180A degrees C and T2=190A degrees C). The cross-linking density was calculated using swelling measurements. Thermal stability of the samples was measured in the temperature range between 25 and 750A degrees C.

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