

# EFFECT OF CROSSLINK TYPE ON THE ULTRASOUND DEVULCANIZATION OF SBR VULCANIZATES

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## ABSTRACT

Sulfur-cured non-reinforced SBR with different amounts of poly-, di- and monosulfidic crosslinks is devulcanized by high power ultrasound irradiation in a continuous process under various processing conditions. Total crosslink density, the proportion of polysulfidic crosslinks, gel fraction, and glass transition temperature are measured. The effect of the initial fraction of polysulfidic bonds on the devulcanization process is discussed.