

Modification of vulcanizates based on styrene-butadiene rubber (SBR-1705 HI-AR) by lignocellulosic additives

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Abstract

Lignocellulosic additives-modifiers for polymers were obtained by thermomechanical processing of wood pulp and its further modification by Lewis acids and by processing of microcrystalline cellulose with organic amines. The influence of the additives on vulcanization kinetics of compounds and complex of physico-mechanical properties of vulcanizates based on styrene-butadiene rubber (SBR-1705 HI-AR) was examined.