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The influence of micro-and nanosized powders of aluminum and passivating additives on the curing rheokinetics of 1,3-dinitrile-2,4,6-triethylbenzene and mechanical characteristics of compositions based on the base of rubber SKD

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Abstract

The ability to block the activity of 1,3-dinitrile-2,4,6-triethylbenzene (TON-2) by nanosized aluminum powder ALEX, γ-Al_2O_3, additives of organic acids with regulation of rheokinetic, processability, mechanical characteristics of polymeric compositions based on rubber SKD in a wide range have been shown. A comparison of the activity of organic acids on the base of TON-2 in mixtures with the results for its complexes with the TON-2 and with the data on activity of the considered compounds during curing butadiene rubber NTRV by the diisocyanates were curried out.