

Название публикации:

Investigation of surface halide modification of nitrile butadiene rubber

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Аннотация:

The investigation is devoted to the novel technology of surface halide modification of rubber samples based on nitrile butadiene rubber (NBR). 1,1,2-trifluoro-1,2,2-trichlorethane was used as halide modifier. The developed technology is characterized by production stages reduction to one by means of treating the rubber compound with a halide modifier. The surface halide modification of compounds based on nitrile butadiene rubber (NBR) was determined to result in increase of resistance to thermal oxidation and aggressive media. The conducted research revealed the influence of modification time on chemical resistance and physical-mechanical properties of rubbers under investigation.

Ключевые слова:

Butadiene, Chemical modification, Cyanides, Thermooxidation, Aggressive media, Nitrile butadiene rubber, Physical-mechanical properties, Production stage, Thermal oxidation, Rubber