

Technical articles

M. BEINER, G. GUPTA, J. WÖTZEL, M. MALKE, U. WENDLER, C. SCHULZE GRONOVER, B. MÜLLER, D. PRÜFER, R. JAEGER, C. STAUCH, K. MANDEL Biomimetic synthetic rubber vs. natural rubber – Strain induced crystallization and abrasion resistance	26
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Results of the collaborative research project "Biomimetic Synthetic Rubber – BISYKA" of the Fraunhofer-Gesellschaft will be presented. The test results clearly show that similar performance parameters can be achieved if the natural rubber in tire tread compounds is replaced by the biomimetic synthetic rubber developed in this Fraunhofer research project.

A. ANSARIFAR, K. NOULTA, G. W. WEAVER, K. G. U. WIJAYANTHA Comparing two highly efficient methods for sulfur curing of rubber	30
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This study compares two highly efficient methods developed for the sulfur vulcanization of natural rubber and ethylene-propylene-diene rubber. In both cases, only the optimum amount of the chemical curatives was used. The results suggest that the sulfur cure systems currently used to vulcanize industrial rubber compounds can be improved and be made more cost-effective and safer.

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