

Title (en)

METHOD FOR IMPROVING PROCESSABILITY AND STORAGE STABILITY OF A SILICA FILLED ELASTOMERIC COMPOSITION

Title (de)

VERFAHREN ZUR VERBESSERUNG DER VERARBEITBARKEIT UND LAGERSTABILITÄT VON MIT KIESELSÄURE GEFÜLLTER ELASTOMERZUSAMMENSETZUNG

Title (fr)

PROCEDE D'AMELIORATION DE LA STABILITE DE LA CAPACITE DE TRAITEMENT ET DU STOCKAGE D'UNE COMPOSITION REMPLIE DE SILICE

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Application

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Priority

- EP 00991217 A 20001219
- EP 0012956 W 20001219
- EP 99830821 A 19991230
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- US 17568200 P 20000112
- US 21266500 P 20000620

Abstract (en)

[origin: WO0149786A1] Method for improving processability and storage stability of a silica filled elastomeric composition, said method comprising adding to said composition a thermoplastic polymer having a main hydrocarbon chain to which hydroxy groups are linked, said polymer having a weight-average molecular weight of at least 8,000. Preferably, the method further comprises adding to the silica filled elastomeric composition a polymer containing functional groups reactive with said hydroxy groups. The polymer containing hydroxy groups is highly effective in reducing and stabilizing viscosity of the composition, even when used in relatively low amounts, while maintaining or even enhancing the reinforcement effect of silica on the elastomeric composition. The resulting composition is particularly suitable to produce tyres, and particularly tyre treads.

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