

Title (en)  
METHOD FOR PREPARING SILICA FILLED ELASTOMERIC COMPOSITIONS

Title (de)  
VERFAHREN ZUR HERSTELLUNG VON SILICA-GEFÜLLTEN ELASTOMERZUSAMMENSETZUNGEN

Title (fr)  
PROCEDE DE PREPARATION DE COMPOSITIONS ELASTOMERES CONTENANT UNE CHARGE DE SILICE

Publication  
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Application  
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Abstract (en)  
[origin: WO0196463A2] A process for preparing a cross-linked blend comprising a) mixing a copolymer of a C4 to C7 isoolefin and a para-alkylstyrene with silica, b) separately mixing a general purpose rubber with silica, wherein one or more silane coupling agents is mixed with at least one of the silica/copolymer or silica/general purpose rubber blends, and c) mixing the silica/copolymer blend with the silica/general purpose rubber blend. Typical silane coupling agents include bis(3-triethoxysilylpropyl) tetrasulfide, 3-thiocyanatopropyl-triethoxysilane, 3-mercaptopropyl-trimethoxy silane, and one embodiment of the copolymer is a terpolymer of isobutylene, para-methylstyrene, and bromo-para-methylstyrene.

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