

HEAT-RESISTANT RUBBER COMPOSITION

ABSTRACT

A heat-resistant rubber composition of the invention is a vulcanizable composition comprising a specific ethylene- α -olefin-nonconjugated polyene copolymer rubber (A) and an organic peroxide (B). This heat-resistant composition has high crosslinking efficiency given by the organic peroxide and high modulus, and can provide a vulcanized rubber molded product of excellent resistance to environmental deterioration such as thermal aging resistance.

The other heat-resistant rubber composition of the invention is a vulcanizable composition comprising 100 parts by weight of a specific ethylene- α -olefin-nonconjugated polyene copolymer rubber (A) composed of ethylene, an α -olefin or 3 to 20 carbon atoms and a nonconjugated polyene which is a vinyl end group-containing norbornene compound, 0.2 to 5 parts by weight of an amine type anti-aging agent (C) and/or a hindered phenol type anti-aging agent (D), 1 to 10 parts by weight of a sulfur type anti-aging agent (E) and an organic peroxide (B). This heat-resistant rubber composition can provide a vulcanized rubber molded product showing not only excellent mechanical properties and electrical properties and but also prominently high thermal aging resistance.

When the ethylene- α -olefin-nonconjugated polyene copolymer rubber (A) may be a blend of an ethylene- α -olefin-nonconjugated polyene copolymer rubber (A1) having an intrinsic viscosity $[\eta]$ of 1 to 10 dl/g. and a

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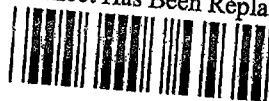
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nonconjugated polyene content of 0.01 to 2 % by mol and an ethylene- α -olefin-nonconjugated polyene copolymer rubber (A2) having an intrinsic viscosity $[\eta]$ of 0.1 to 5 dl/g (this intrinsic viscosity being different from that of the

5 ethylene- α -olefin-nonconjugated polyene copolymer rubber (A1) and a nonconjugated polyene content of 0.01 to 2 % by mol, the heat-resistant rubber composition has extremely good fluidity and can provide a vulcanized rubber molded product showing not only excellent mechanical and

10 electrical properties but also prominently high thermal aging resistance.

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