

Title (en)
COMPOSITION FOR ELECTRIC CABLES

Title (de)
ZUSAMMENSETZUNG FÜR ELEKTRISCHE KABEL

Title (fr)
COMPOSITION DESTINEE A DES CABLES ELECTRIQUES

Publication
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Application
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Priority
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• SE 9703844 A 19971022

Abstract (en)
[origin: WO9921194A1] A peroxide-cross-linkable ethylene polymer composition for an insulating layer of an electric cable is described. The composition is characterised in that the additives of the composition comprise an N-substituted 2,2,6,6-tetramethylpiperidine compound as an antioxidant and light stabilising agent; and that the composition after 21 days at 135 DEG C has a retained ultimate tensile strength of at least 75 % and a retained ultimate elongation of at least 75 % when tested in accordance with IEC 811. This additive acts as a combined light and thermo-oxidative stabilising agent and inhibits the generation of moisture thereby reducing the risk of water tree formation. Preferably, the composition contains no conventional antioxidants, such as phenolic antioxidants, organic phosphite oxidants and sulphur containing anti-oxidants.

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