

Title (en)

UNCURED RUBBER COMPOSITIONS CONTAINING AROMATIC FURAZAN OXIDES.

Title (de)

UMGEHÄRTETE KAUTSCHUKZUSAMMENSETZUNGEN DIE AROMATISCHE FURAZANOXIDE ENTHALTEN.

Title (fr)

COMPOSITIONS DE CAOUTCHOUC CONTENANT DES OXYDES DE FURAZANE AROMATIQUES.

Publication

EP 0110953 A4 19840928 (EN)

Application

EP 83902018 A 19830509

Priority

- US 38019382 A 19820520
- US 38019482 A 19820520

Abstract (en)

[origin: WO8304031A1] Uncured rubber compositions containing fused aromatic furazan oxides exhibit improved processability and reduced viscosity. Useful furazan oxides have both carbons of the furazan ring as part of a fused aromatic ring and include benzofurazan oxide and its methyl and methoxy analogs. Improvements in processability, green strength and liquification of NR can be achieved through use of these furazan oxides in uncured rubber compositions. Filled rubber vulcanizates containing aromatic furazan oxides exhibit many improved properties such as increased filler-rubber interaction and decreased hysteresis. Useful furazan oxides have both carbons of the furazan ring as part of a fused aromatic ring. Typical examples are benzofurazan oxide and its methyl and methoxy analogs. Tires made from the inventive vulcanizates show lower running temperatures and improved rolling resistance.

IPC 1-7

C08C 4/00; **C08C 19/20**; **C08C 19/22**

IPC 8 full level

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CPC (source: EP KR)

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C-Set (source: EP)

C08K 5/35 + **C08L 21/00**

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- [X] DE 1542772 A1 19700326 - BAYER AG
- [L] JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, vol. 76, no. 8, April 20, 1954, American Chemical Society (US), R.J. GAUGHRAN et al.: "Contribution to the chemistry of benzofuroxan and benzofurazan derivatives", pages 2233-2236.

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