

Title (en)

THERMOPLASTIC MOULDING MATERIALS BASED ON A STYRENE-ACRYLONITRILE COPOLYMER, AN ELASTOMER AND A POLYIMIDE

Publication

**EP 0000429 B1 19811028 (EN)**

Application

**EP 78300104 A 19780629**

Priority

GB 2826077 A 19770706

Abstract (en)

[origin: EP0000429A1] The invention relates to the field of thermoplastic moulding materials, more particularly the use of elastomers to modify such materials to improve their impact resistance. <??>A problem with this approach is that when elastomers are blended with thermoplastic polymers such as styrene/ acrylonitrile copolymers the flexural strength of the material is considerably reduced. <??>The invention provides a thermoplastic moulding material comprising styrene/acrylonitrile copolymer, an elastomeric material having an elongation at break greater than the styrene/ acrylonitrile copolymer, a polyimide prepolymer and a reinforcing filler. <??>The polyimide prepolymer is an addition polyimide prepared from a polyamine and a bis-imide of an unsaturated carboxylic acid. <??>The reinforcing filler is glass fibre or mica, although other fillers may be included along with these. <??>The elastomeric material may be a sulphur vulcanizable rubber or a thermoplastic rubber. If vulcanizable, the rubber is preferably used uncured. <??>Use of the moulding material is in the manufacture of moulded plastics articles.

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**C08L 25/12**

IPC 8 full level

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C-Set (source: EP US)

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