

Title (en)
FLAME-RETARDANT POLYAMIDE FILAMENTS AND THEIR USE

Title (de)
FLAMMHEMMENDE POLYAMIDFILAMENTE UND IHRE VERWENDUNG

Title (fr)
FILAMENTS POLYAMIDES IGNIFUGEANTS ET LEUR UTILISATION

Publication
EP 1319739 A1 20030618 (EN)

Application
EP 01970150 A 20010919

Priority
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Abstract (en)
A flame retardant polyamide filament comprising a polyamide resin composition which has a tensile strength of not less than 2.0 cN/dtex as measured according to JIS L1013 and comprises 98 to 80 parts by weight of a polyamide resin having a relative viscosity of 2.0 to 4.0 and 2 to 20 parts by weight of a triazine-based flame retardant which is dispersed in the polyamide filament and has an average particle size of less than 5 μ m. Such a flame retardant polyamide filament is not required to contain any halogen-based compound and, therefore, can exhibit a high safety to environments and an excellent strength. Accordingly, the polyamide filament is suitable for production of a multi-filament, especially polyamide BCF obtained by crimping the multi-filament, and further carpets using the polyamide BCF. Also, the polyamide filament in the form of a monofilament is applicable to guard nets for wire harness, mesh sheets, etc., and the polyamide filament in the form of a multi-layer filament is also applicable to mesh sheets.

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