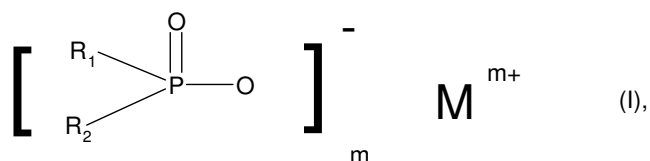


Flame-retardant polyamide compositions having high heat distortion resistance and use thereof

Abstract

What are described are flame-retardant polyamide compositions having a heat deflection temperature HDT-A of at least 280°C, comprising

- polyamide having a melting point of not less than 290°C as component A,
- fillers and/or reinforcers as component B,
- phosphinic salt of the formula (I) as component C



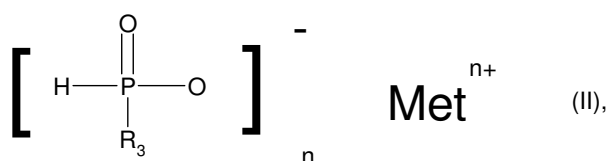
in which R₁ and R₂ are ethyl,

M is Al, Fe, TiO_p or Zn,

m is 2 to 3, and

p = (4 – m) / 2

- compound selected from the group of the Al, Fe, TiO_p and Zn salts of ethylbutylphosphinic acid, of dibutylphosphinic acid, of ethylhexylphosphinic acid, of butylhexylphosphinic acid and/or of dihexylphosphinic acid as component D, and
- monoethylphosphinic salt of the formula II as component E



in which R₃ is ethyl,

Met is Al, Fe, TiO_q or Zn,

n is 2 to 3, and

q = (4 – n) / 2.

The polyamide compositions can be used for production of fibers, films and shaped bodies, especially for applications in the electricals and electronics sector.

[no suitable figure]