

Title (en)  
HALOGEN-FREE FLAME RETARDANT THERMOPLASTIC POLYMER COMPOSITIONS

Title (de)  
HALOGENFREIE FLAMMHEMMENDE THERMOPLASTISCHE POLYMERZUSAMMENSETZUNGEN

Title (fr)  
COMPOSITIONS POLYMERES THERMOPLASTIQUES IGNIFUGEANTES EXEMPTES D'HALOGENE

Publication  
**EP 1112313 A1 20010704 (EN)**

Application  
**EP 99969424 A 19990910**

Priority  
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Abstract (en)  
[origin: WO0017268A1] Halogen-free flame retardant polymer compositions are made from an ABS resin as the sole resin, and a P, P'-dihydrocarbyl pentaerythrityl diphosphonate in which the total number of carbon atoms in the two hydrocarbyl substituents is 8 or less as the sole phosphorus-containing flame retardant, or form at least one thermoplastic polymer and a combination of at least one of the foregoing P, P'-dihydrocarbyl pentaerythrityl diphosphonates, and at least one arylbis (dihydrocarbylphosphate) and/or at least one arylbis (dihydrocarbylphosphinate). Effective flame retardancy (UL-94 V-0) is achieved without material disruption of physical property requirements of the substrate polymer.

IPC 1-7  
**C08K 5/51**; **C08L 55/02**

IPC 8 full level  
**C08J 5/00** (2006.01); **C08K 5/51** (2006.01); **C08K 5/523** (2006.01); **C08K 5/527** (2006.01); **C08K 5/5357** (2006.01); **C08L 25/04** (2006.01); **C08L 51/04** (2006.01); **C08L 55/02** (2006.01)

CPC (source: EP)  
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C-Set (source: EP)  
1. **C08K 5/523** + **C08L 55/02**  
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Citation (search report)  
See references of WO 0017268A1

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