

Title (en)
TOUGH, HIGH PERFORMANCE, ADDITION-TYPE THERMOPLASTIC POLYMERS

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EP 0408672 A4 19910424 (EN)

Application
EP 89908634 A 19890614

Priority
US 25048088 A 19880928

Abstract (en)
[origin: WO9003405A1] A tough, high performance polyimide is provided by reacting a triple bond conjugated with an aromatic ring in a bisethynyl compound with the active double bond in a compound containing a double bond activated toward the formation of a Diels-Adler type adduct, especially a bismaleimide, a biscitraconimide, or a benzoquinone, or mixtures thereof. Addition curing of this product produces a highly linear polymeric structure and heat treating the highly linear polymeric structure produces a thermally-stable aromatic addition-type thermoplastic polyimide, which finds utility in the preparation of molding compounds, adhesive compositions, and polymer matrix composites.

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C08F 26/00; **C08F 26/06**; **C08F 281/00**; **C08F 283/04**; **C08G 69/48**

IPC 8 full level
C07D 403/14 (2006.01); **C08F 2/60** (2006.01); **C08F 22/36** (2006.01); **C08F 22/40** (2006.01); **C08F 38/00** (2006.01); **C08G 61/00** (2006.01); **C08G 73/10** (2006.01); **C08G 73/12** (2006.01)

CPC (source: EP KR)
C07D 403/14 (2013.01 - EP); **C08F 2/60** (2013.01 - EP); **C08F 26/00** (2013.01 - KR); **C08G 73/123** (2013.01 - EP)

Citation (search report)

- No further relevant documents have been disclosed.
- See references of WO 9003405A1

Designated contracting state (EPC)
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