

Title (en)

ETHYLENE ALKYL ACRYLATE COPOLYMERS WITH IMPROVED HEAT RESISTANCE

Title (de)

ETHYLEN-ALKYLACRYLAT-COPOLYMERE MIT VERBESSERTER WÄRMEBESTÄNDIGKEIT

Title (fr)

COPOLYMERES D'ETHYLENE-ACRYLATE D'ALKYLE PRESENTANT UNE RESISTANCE A LA CHALEUR AMELIOREE

Publication

**EP 1409559 A4 20040602 (EN)**

Application

**EP 02709086 A 20020118**

Priority

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Abstract (en)

[origin: WO02057354A2] The invention provides a copolymer of ethylene and at least 5 mol % of comonomer units derived from an alkyl acrylate or alkyl methacrylate, wherein the copolymer has a melt index of from 1 to 10,000 g/10 min, and a maximum peak melting temperature of at least 100 DEG C. The alkyl group of the alkyl acrylate or alkyl methacrylate can be a linear or branched C1 to C12 group, particularly n-butyl. The copolymer shows increased heat resistance as characterized by a temperature required to melt 50 % of the copolymer of at least 80 DEG C, a temperature required to melt 80 % of the copolymer of at least 100 DEG C, a temperature required to melt 100 % of the copolymer of at least 110 DEG C. The invention further provides a process for copolymerizing ethylene and an alkyl acrylate or alkyl methacrylate comonomer.

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**C08F 20/10**

IPC 8 full level

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CPC (source: EP KR US)

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Citation (search report)

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- [XY] US 5234986 A 19930810 - MCBRIDE EDWARD [US]
- [X] DE 3217973 A1 19831117 - BASF AG [DE]
- [X] DE 3404744 A1 19850814 - BASF AG [DE]
- See references of WO 02057354A2

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DOCDB simple family (publication)

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