

Title (en)

Hydrophilic dispersion polymers for paper applications

Title (de)

Hydrophile Dispersionspolymere für Papieranwendungen

Title (fr)

Polymères hydrophiles en dispersion pour applications papetières

Publication

EP 0831177 B1 20070725 (EN)

Application

EP 97116538 A 19970923

Priority

US 71928396 A 19960924

Abstract (en)

[origin: EP0831177A2] A papermaking process comprising forming an aqueous cellulosic papermaking slurry and adding a hydrophilic dispersion polymer to the slurry to increase retention and/or drainage is disclosed. The hydrophilic dispersion polymer comprises (a) a cationic monomer and (b) a second monomer represented by (meth)acrylamide (in an aqueous solution of a polyvalent anionic salt), wherein the polymerization is carried out in the presence of either an organic high-molecular weight multivalent cation comprising a water-soluble polymer containing at least one (a) monomer and/or poly diallyl dimethyl ammonium chloride (DADMAC). After addition of the polymers, the slurry is drained to form a sheet, and the sheet is dried.

IPC 8 full level

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US6162328A; AU766846B2; US6036868A; US6310124B1; US8299183B2; US7323510B2; US7220339B2; US7091273B2; US6235205B1; US6262168B1; EP1353975B2

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