

Title (en)

HYDROPHILIC ESTER POLYURETHANE FOAMS

Title (de)

HYDROPHILE ESTER-POLYURETHANSCHÄUME

Title (fr)

MOUSSES EN POLYURETHANNE D'ESTER HYDROPHILE

Publication

EP 1597307 A2 20051123 (EN)

Application

EP 03814339 A 20031223

Priority

- US 0341032 W 20031223
- US 43527702 P 20021223

Abstract (en)

[origin: WO2004058864A2] An ester polyurethane foam is prepared by reacting a mixture of one or more polyester polyols with one or more isocyanates and one or more silicone surfactants in the presence of a blowing agent, such as water, and other additives, such as catalysts. The cured foam is chemically treated in a caustic solution and is then felted (compressed under heat and pressure) to form a hydrophilic ester polyurethane foam having a water absorption rate of at least 30 pounds of water per square foot per minute (1.44 kPa/min). The foam also has greater water holding capacity and wet strength than cellulose.

IPC 1-7

C08J 9/38; **B29C 44/56**; **C08G 18/42**

IPC 8 full level

B29C 44/56 (2006.01); **C08G 18/42** (2006.01); **C08J 9/38** (2006.01)

CPC (source: EP)

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Citation (search report)

See references of WO 2004058864A2

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