

Title (en)
METHOD FOR PRODUCING POLYURETHANE INTEGRAL FOAM MATERIALS

Title (de)
VERFAHREN ZUR HERSTELLUNG VON POLYURETHANINTEGRALSCHAUMSTOFFEN

Title (fr)
PROCEDE DE PRODUCTION DE MOUSSES DE POLYURETHANE INTEGRALES

Publication
EP 1664145 A2 20060607 (DE)

Application
EP 04703771 A 20040121

Priority
• EP 2004000459 W 20040121
• DE 10303172 A 20030127

Abstract (en)
[origin: DE10303172A1] A polyol mixture with a functionality of 2-3 used for production of integral polyurethane foam comprises (b1) polyether-ol with an ethylene oxide (EO) content above 40 wt%, (b2) polyether-ol based on propylene- and/or butylene oxide and optionally (b3) polyether-ol with an EO content below 25 wt%, the amount of (b1 + b3) being greater than that of (b2). A method for the production of integral polyurethane foam by reacting (a) optionally modified polyisocyanates with (b) a polyether-ol mixture, (c) chain extenders and optionally (d) other NCO-reactive compounds, in presence of (e) water and/or other blowing agents, (f) catalysts and optionally (g) other additives etc. Component (b) has a functionality of 2-3 and comprises (b1) at least difunctional polyether-ol(s) based on propylene oxide (PO) and/or butylene oxide (BuO) and ethylene oxide (EO), with an EO content of more than 40 wt% and an OH number of 20-80 mg KOH/g, (b2) at least difunctional polyether-ol(s) based on PO and/or BuO with an OH number of less than 600 and optionally (b3) at least difunctional polyether-ol(s) based on PO and/or BuO and EO with an EO content of less than 25 wt% and an OH number of 20-160. The reaction is carried out with an isocyanate index of less than 110, with the total wt. of (b1) and (b3) being greater than that of (b2) and the amount of component (c) being less than 15 wt% based on components (b-g). An Independent claim is also included for integral polyurethane foam obtained by this method.

IPC 1-7
C08G 18/10; **C08G 18/48**

IPC 8 full level
C08G 18/48 (2006.01); **C08G 18/66** (2006.01)

CPC (source: EP)
C08G 18/4804 (2013.01); **C08G 18/6674** (2013.01); **C08G 2110/0033** (2021.01); **C08G 2110/0083** (2021.01); **C08G 2410/00** (2013.01)

Citation (search report)
See references of WO 2004067607A2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)
DE 10303172 A1 20040729; CN 1329422 C 20070801; CN 1771270 A 20060510; EP 1664145 A2 20060607; WO 2004067607 A2 20040812; WO 2004067607 A3 20060413

DOCDB simple family (application)
DE 10303172 A 20030127; CN 200480002908 A 20040121; EP 04703771 A 20040121; EP 2004000459 W 20040121