

Title (en)
POLYURETHANE FOAMS BASED ON POLYETHER CARBONATE POLYOLS

Title (de)
POLYURETHANSCHAUMSTOFFE BASIEREND AUF POLYETHERCARBONATPOLYOLEN

Title (fr)
MOUSSES DE POLYURÉTHANE À BASE DE POLYÉTHÉRE-CARBONATE-POLYOLS

Publication
EP 4077452 A1 20221026 (DE)

Application
EP 20821232 A 20201214

Priority
• EP 19217604 A 20191218
• EP 2020085932 W 20201214

Abstract (en)
[origin: WO2021122431A1] The invention relates to a method for producing polyurethane foams by reacting the following components: A polyol components, containing A1 40 to 100 parts by weight of polyether carbonate polyol with a hydroxyl number according to DIN 53240-1 (June 2013) of 20 mg KOH/g to 120 mg KOH/g, A2 0 to 60 parts by weight of polyether polyol with a hydroxyl number according to DIN 53240-1 (June 2013) of 20 mg KOH/g to 250 mg KOH/g, and an ethylene oxide content of 0 to 60 wt.%, wherein polyether polyol A2 is free of carbonate units; B B1 a catalyst, and B2 optionally auxiliary and additional substances; C water and/or physical blowing agents, with D di- and/or polyisocyanates, wherein the production occurs at a characteristic value of 90 to 120, characterised in that the production occurs in the presence of 0.01 to 10.00 parts by weight of a component K, in relation to the total of the parts by weight of the component A1 + A2 = 100 parts by weight, and the component K is a compound according to formula (II), wherein R1= represents a substituted or unsubstituted C1-C22 alkyl group which can optionally be interrupted by heteroatoms, a substituted or unsubstituted C1-C22 alkenyl group which can optionally be interrupted by heteroatoms, a substituted or unsubstituted C1-C22 alkoxy group which can optionally be interrupted by heteroatoms, a substituted or unsubstituted C6-C18 aryl group, a substituted or unsubstituted C6-C18 aryloxy group, heteroaryl group, thiols, phosphorous compounds, carboxylates, isocyanates, amines, carbamines, amides or carbamides, R2 = can be the same or different and represents a substituted or unsubstituted C1-C22 alkyl group which can optionally be interrupted by heteroatoms, a substituted or unsubstituted C1-C22 alkenyl group which can optionally be interrupted by heteroatoms, a substituted or unsubstituted C1-C22 alkoxy group which can optionally be interrupted by heteroatoms, a substituted or unsubstituted C6-C18 aryl group, a substituted or unsubstituted C6-C18 aryloxy group, and X = can be the same or different and represents F, Cl, Br or I.

IPC 8 full level
C08G 18/44 (2006.01); **C08G 18/16** (2006.01); **C08G 18/18** (2006.01); **C08G 18/24** (2006.01); **C08G 18/40** (2006.01); **C08G 18/48** (2006.01); **C08G 18/76** (2006.01); **C08J 9/00** (2006.01); **C08J 9/12** (2006.01); **C08G 101/00** (2006.01)

CPC (source: EP)
C08G 18/165 (2013.01); **C08G 18/1833** (2013.01); **C08G 18/246** (2013.01); **C08G 18/4018** (2013.01); **C08G 18/44** (2013.01); **C08G 18/485** (2013.01); **C08G 18/7621** (2013.01); **C08G 2110/0008** (2021.01); **C08G 2110/005** (2021.01); **C08G 2110/0083** (2021.01)

Citation (search report)
See references of WO 2021122431A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
EP 3838964 A1 20210623; EP 4077452 A1 20221026; WO 2021122431 A1 20210624

DOCDB simple family (application)
EP 19217604 A 20191218; EP 2020085932 W 20201214; EP 20821232 A 20201214