

Title (en)

REDUCTION OF THE FRACTION OF MONOMERS COMPRISING ISOCYANATE GROUPS IN MOISTURE-CURING POLYURETHANE COMPOSITIONS

Title (de)

VERRINGERUNG DES ANTEILS AN ISOCYANATGRUPPEN AUFWEISENDEN MONOMEREN IN FEUCHTIGKEITSHÄRTENDEN POLYURETHANZUSAMMENSETZUNGEN

Title (fr)

RÉDUCTION DE LA TENEUR EN MONOMÈRES PRÉSENTANT DES GROUPES ISOCYANATE DANS DES COMPOSITIONS DE POLYURÉTHANE DURCISSANT À L'HUMIDITÉ

Publication

EP 2625213 A1 20130814 (DE)

Application

EP 11764579 A 20111006

Priority

- EP 10186742 A 20101006
- EP 2011067478 W 20111006
- EP 11764579 A 20111006

Abstract (en)

[origin: EP2439219A1] Composition comprises: (i) at least one isocyanate groups exhibiting polyurethane polymer; (ii) at least one isocyanate groups exhibiting monomer; and (iii) silicon dioxide, which exhibit functional groups on the surface, which are reactive toward isocyanate groups, where the silicon dioxide is present in the form of particles having an average particle size of $\approx 100 \text{ nm}$ and a specific surface area of $\geq 100 \text{ m}^2/\text{g}$, and the functional groups of the silicon dioxide, reacts at least partially with isocyanate groups of the isocyanate monomer. An independent claim is also included for reducing the content of isocyanate monomers in the composition containing at least one polyurethane polymer having isocyanate groups, and at least one monomer exhibiting isocyanate group, comprising (a) providing a composition having at least one isocyanate polyurethane polymer and at least one monomer having isocyanate groups, and (b) combining the composition with the silicon dioxide exhibiting functional groups on its surface, which are reactive toward isocyanate groups.

IPC 8 full level

C08G 18/10 (2006.01); **C08G 18/12** (2006.01); **C08G 18/38** (2006.01); **C08G 77/02** (2006.01); **C08K 9/04** (2006.01); **C08L 75/04** (2006.01)

CPC (source: EP US)

C08G 18/10 (2013.01 - EP US); **C08G 18/12** (2013.01 - EP US); **C08G 18/3893** (2013.01 - EP US); **C08G 18/3895** (2013.01 - EP US); **C08L 75/04** (2013.01 - EP US); **C08K 9/06** (2013.01 - EP US); **C08K 2201/005** (2013.01 - EP US)

C-Set (source: EP US)

1. **C08G 18/10 + C08G 18/3895**
2. **C08G 18/10 + C08G 18/3893**
3. **C08G 18/12 + C08G 18/3895**
4. **C08G 18/12 + C08G 18/3893**
5. **C08L 75/04 + C08L 83/00**

Citation (search report)

See references of WO 2012045821A1

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