

Title (en)
MONOMER MIXTURE FOR PRODUCING A DENTAL MATERIAL

Title (de)
MONOMERMISCHUNG ZUR HERSTELLUNG EINES DENTALMATERIALS

Title (fr)
MÉLANGE DE MONOMÈRES POUR LA PRODUCTION D'UN MATÉRIAU DENTAIRE

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Application
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Abstract (en)
[origin: WO2022253551A1] The invention relates to a monomer mixture for producing a dental material comprising: a. at least one base monomer M1 of the following formula 1: $\text{PG-S-A-S-[OOC-K-COO-S-A-S]}_n\text{-PG}$ (formula 1), where PG = a polymerizable group selected from OOC-CH=CH_2 and $\text{-OOC-C(CH}_3\text{)=CH}_2$; S = a spacer group selected from an unbranched and a branched alkylene, which has C1-C10 carbon atoms and which can also contain oxygen or -OOC- in the carbon chain, or S is omitted; A = an aliphatic polycyclic group; K = an aliphatic acyclic or cyclic saturated or unsaturated unit with C1-C10 carbon atoms; and $n = 1-9$; b. at least one base monomer M2 of the following formula 2: PG'-S'-A'-S'-PG' (formula 2), where PG' = a polymerizable group selected from OOC-CH=CH_2 and $\text{-OOC-C(CH}_3\text{)=CH}_2$; S' = a spacer group selected from an unbranched and a branched alkylene, which has C1-C10 carbon atoms and which can also contain oxygen or -OOC- in the carbon chain, or S' is omitted; and A' = an aliphatic polycyclic group, wherein the mass ratio $Y = m(\text{M2})/m(\text{M1})$ of the base monomers M2 to M1 is $0.9 \leq Y \leq 20$. The invention also relates to the use of the monomer mixture, to a polymerizable dental material containing such a monomer mixture, to a polymerizable dental material for use in a therapeutic method, and to a cured dental material.

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