

Title (en)

METHOD FOR PRODUCING THERMOTROPIC CASTING RESIN SYSTEMS

Title (de)

VERFAHREN ZUR HERSTELLUNG THERMOTROPER GIESSHARZSYSTEME

Title (fr)

PROCEDE POUR PRODUIRE DES SYSTEMES DE RESINES A COULER THERMOTROPES

Publication

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Application

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Abstract (en)

[origin: WO9964488A1] The invention relates to a method for producing thermotropic casting resin systems that comprise at least one matrix polymer including at least one thermotropic monomer compound which cannot be mixed with the matrix polymer, whereby the matrix polymer and the thermotropic monomer compound are selected in such a way that their refraction indices are almost the same in a temperature range that is below the temperature required for structural change and that reaches the temperature of structural change of the thermotropic monomer compound, the casting resin system being translucent or transparent in this temperature range. After dissolving the monomer thermotropic compound in a matrix solution containing a photohardening oligomer, reactive diluents and photoinitiators and a liquid, photohardenable system is obtained, photoradiation with exclusion of oxygen is carried out for hardening.

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