

Title (en)
HOMOGENEOUS RADIOPAQUE POLYMER-ORGANOBISMUTH COMPOSITES

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Application
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Abstract (en)
[origin: WO9003036A1] Novel radiopaque materials and a method for their preparation are described. The radiopaque materials comprise composites of polymers and heavy metal-containing organic compounds, which heavy metal containing compounds have formula (I), wherein X is a heavy metal; R1, R2 and R3 may be the same or different and are individually selected from the group consisting of phenyl, halogen substituted phenyls, alkyl substituted phenyls, aryl substituted phenyls, ester substituted phenyls, alkene substituted phenyls, silyl groups and methylmethacrylate and R3 can additionally be selected from the group consisting of halogen, alkyl, alkene, ester and carboxylic acid when R3 is not the same as R1 and R2. The composites, which are permanent and nonleachable, do not adversely affect the mechanical and physical properties of compositions. They are useful as medical and dental resins, in fabricating medical and dental appliances, prosthetic devices, radiation shielding devices and radiopaque polyester fabrics for clothing.

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