

Title (en)

COMPOSITIONS AND METHODS FOR POLYMER COMPOSITES

Title (de)

ZUSAMMENSETZUNGEN UND VERFAHREN FÜR POLYMERVERBINDUNGEN

Title (fr)

COMPOSITIONS ET PROCÉDÉS POUR COMPOSITES POLYMÈRES

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Application

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Abstract (en)

[origin: WO2008002867A2] This invention relates to organic salt compositions useful in the preparation of organoclay compositions, polymer-organoclay composite compositions, and methods for the preparation of polymer nanocomposites. In one embodiment, the present invention provides a polymer-organoclay composite composition comprising (a) a polymeric resin; and (b) an organoclay composition comprising alternating inorganic silicate layers and organic layers, said organic layers comprising a pyridinium cation having structure (Formula XXV), wherein Ar⁶, Ar⁷, and Ar⁸ are independently C₂-C₅₀ aromatic radicals; "b" is a number from 0 to 2; R³ is independently at each occurrence a halogen atom, a C₁-C₂₀ aliphatic radical, a C₅-C₂₀ cycloaliphatic radical, or a C₂-C₂₀ aromatic radical; and Ar¹¹ is a C₂-C₂₀₀ aromatic radical, or a polymer chain comprising at least one aromatic group.

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