

Interaction of Polyphenylsiloxane with Magnesium Acetylacetonate

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Abstract—Interaction of polyphenylsiloxane with magnesium acetylacetonate in boiling toluene has been studied. The products isolated via extraction and fractional precipitation have been characterized with elemental analysis, IR spectroscopy, X-ray diffraction analysis, and thermal analysis. The reaction products are polymers containing acetylacetonate group at magnesium atom. Structure of the major product has been suggested.

Keywords: polyphenylsiloxane, magnesium acetylacetonate, Millet–Boyer method, bridging bonding, poly-(phenylmagnesium)siloxane

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