

عنوان مقاله:

Curing of a Furan Resin in the Presence of Oxalic Acid: A Kinetic Study by DSC

محل انتشار:

یازدهمین سمینار بین المللی علوم و تکنولوژی پلیمر (سال: 1393)

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خلاصه مقاله:

This paper describes the curing behavior of an in-house synthesized furan resin at ambient conditions in the presence of oxalic acid, as a mild curing agent and catalyst, by non-isothermal differential scanning calorimetry. The study was performed at three time intervals i.e., 0, 6 and 24 h. after mixing of the resin with the curing agent. Non-isothermal, multiple heating rate, model-free methods of Ozawa-Flynn-Wall and Kissinger-Akahira-Sunose were used for investigating the curing kinetics of the mixture

کلمات کلیدی:

Furan resin, Oxalic acid, Curing kinetics, DSC, Isoconversional

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