### عنوان مقاله:

Kinetic Study of Flame Retardant Epoxy Resin System Using Benzyl Dimethyl Amine as catalyst

## محل انتشار:

نهمین کنگره ملی مهندسی شیمی ایران (سال: 1383)

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### خلاصه مقاله:

The curing reaction of epoxy novolac /tetrabromobisphenol A resin with nadic methyl ahydride as a curing agent and benzyl dimethyl amine as a catalyst was studied by non-isothermal differential scanning calorimetry (DSC) at heating rates of 5, 10, 15 and 20°C/min. The dynamic scans were analysed to estimate the activation energy and the order of reaction for the curing process using some empirical reactions. The results were dependent on the catalyst .concentration and proceeded through Ozaea and Kissinger equations

# کلمات کلیدی:

Epoxy novolac resin, NMA, BDMA, Kinetic, Cure, Non-isothermal DSC

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