

Synthesis and Characterization of poly(amide-imide)s Containing 2,4-diamino-6-phenyl-1,3,5-triazine

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A diimide-diacid was synthesized from the condensation reaction of trimellitic anhydride with 2,4-diamino-6-phenyl-1,3,5-triazine. Poly(amide-imide)s were prepared through polycondensation reactions of diimide-diacid with different diamines via direct Yamazaki method. The synthesized poly(amide-imide)s were characterized by FT-IR, ¹H NMR. And the thermal property of poly(amide-imide)s characterized by thermogravimetric analysis (TGA). According to the differential scanning calorimetry (DSC) analysis, it was found that poly(amide-imide)s exhibited excellent thermal stabilities characteristics at a given temperature.