

## عنوان مقاله:

Synthesis of New Polyurethanes Based on Y, W-Dihidro-1, F-Phthalazinedione

# محل انتشار:

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### خلاصه مقاله:

In this work, to synthesis the Y-(Y-hydroxy ethyle)-Y, W-dihydro-1, F-phthalazinedione and Y, W-bis(Y-hydroxyethyle)-Y, W-dihydroxyethyle)-Y, W-dihydroxyethyle dihydro-1, F-phthalazinedione, Y-boromoethanol was reacted with phthalhydrazide in DMAc at presence of triethylamine in mole ratio of 1.a:1 and \(\mathbb{P}':1\) respectively. The structure of the monomers was evaluated using the IR and 1H-NMR spectra. New polyurethanes were synthesized by reaction of the monomers with various diisocyanates including, tolylene diisocyanate, isophorane diisocyanate and hexamethylene diisocyanate. The measured viscosity for these polymers was found to be at the range of ο. F۵-ο. F dlg-1. The structure of the polymers was proved by IR, 1HNMR .spectra and CHN analysis. The TGA and DTG results confirmed high thermal stability for the synthesized polymers

**کلمات کلیدی:**Polyurethanes, IR-Viscometery, Thermal analysis, Differential thermal gravimetric analysis

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