

ABSTRACTPYROLYSIS OF PARAPOLYPHENYLENE

Parapolyphenylene,  $(C_6H_4)_n$ , is an insoluble, infusible polymer. It can be consolidated by mechanical pressure. Carbon yield at 1000C is about 85%. Pyrolysis of uniaxially compressed material yields a laminated structure similar to pyrolytic carbon. Properties are anisotropic. The polymer has shown promise as a carbonizing binder. Although the polymer is infusible, the carbon derived from it graphitizes at the usual temperatures.

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