ABSTRACT

Three plasma polymerization techniques have been examined for production of air-stable films consisting principally of beryllium and carbon. Direct polymerization of diethylberyllium (DEB), Be vapor injected trans-2-butene (T2B) plasma polymerization, and reactive sputtering of Be with a T2B plasma. Details of the set up and operation of each of these techniques and their relative advantages will be described.

*Work supported Lawrence Livermore National Laboratory under Subcontract No. B310613.