

Comparative Study on Mechanical Properties of Two Kinds of JOB-9003 Shaped Separately by Isostatic Liquid Pressing and Mould Pressing

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Abstract: It has been tested and compared that the mechanical properties in the load of tension, compress and three-point-bending at the different temperatures of two kinds polymer bonded explosive JOB-9003 which were shaped by technology formation of isostatic liquid and mould pressing. Results show that the mechanical properties of two kinds of JOB-9003 are all most the same at 20 °C, but from 35 °C to 55 °C the mechanical properties of isostatic liquied pressing JOB-9003 is much higher than that of mould pressing JOB-9003.

Key words: solid mechanics; polymer bonded explosive(PBX); isostatic liquid pressing; mould pressing

《含能材料》2002 年第 3 期被 CA 收录论文

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